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J. G. Lendenbeck

OFFICIAL ORGAN OF THE NORTHWEST FRUIT GROWERS ASSOCIATION

VOLUME THREE

NUMBER FOUR

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U. S. Department of Agriculture

BETTER FRUIT

October 1908



THE GAVIOTA

Originated by Luther Burbank

PUBLISHED BY BETTER FRUIT PUBLISHING COMPANY, HOOD RIVER, OREGON

These Apples grew in the WHITE SALMON VALLEY



Opposite Hood River

Soil, climate & location especially adapted for high grade fruit & berries. Send for our *Book* descriptive of this beautiful valley

A SPLENDID PROPERTY

No. 102—25 acres 4 miles east of White Salmon and $1\frac{1}{4}$ miles from a boat landing on the Columbia river. This tract has a gentle slope to the east, and every acre is first-class fruit land with a deep, rich red shot soil. 10 acres have been slashed and burned and is ready to clear. The balance is willow, hazel, vine maple and wild cherry brush land. The view from this tract up and down the Columbia is magnificent. The possibilities of this tract for a home and commercial orchard are hard to surpass, and the price is only \$75 per acre. This is a splendid property at a bargain.

White Salmon Land Co.

VAN VORST & WELLS, Managers, Successors to J. C. McInnes

WHITE SALMON, WASHINGTON

Chenowith Cove Tracts for Sale

Fruit and vegetable land on the line of the O. R. & N. R. R. within two and one-half miles of

The Dalles, Oregon

a city of five thousand population. These tracts are a part of my Chenowith Cove Farm, which is said to be one of the best farms in Wasco County. The ground is the earliest in the State, producing fruits and vegetables of many kinds for the earliest market and best prices. Prices and terms upon application to

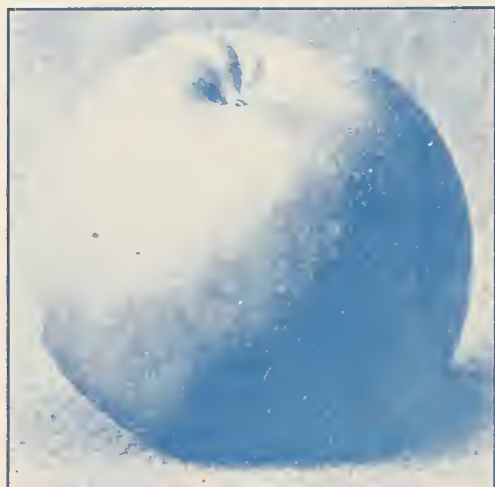
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Cashier
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The Dalles, Oregon

Live facts in a lively way. Live facts for men and women. Facts that affect you—your family

Hood River Valley Apple Lands



Are paying from \$400 to \$700 an acre to their owners.

Many started in a small way, today they are independent.

You can begin today

He who investigates for himself becomes "The man who knows"

IT PAYS TO SEE US

W. J. Baker & Co. OR Chapin & Herlow

HOOD RIVER,
OREGON

332 Chamber of Commerce
PORTLAND, OREGON



SCENE ON THE STRAWBERRY FARM OF C. O. BARNES,
ONE MILE FROM GOLDENDALE, WASHINGTON

Seven Hundred Crates to the Acre

of first class commercial berries
from this field this season

KLICKITAT

will bear inspection, it will pay you
to investigate. Call on or address

Secretary Klickitat Development League
GOLDENDALE, WASHINGTON

To Oregon, Idaho and Washington Fruit Men!

Chicago and New York are the two greatest consumers of your products in America.

The two combined will consume more high quality fruit than all the rest of the United States together, and draw better prices on the best grades than any other markets.

Each town has its advantages.

New York has made record prices on a few cars and is a valuable market at times. Its worst fault is that it goes to extremes. You may at times (not always by any means) get more there for one or two cars of something fine when the article is scarce, than in Chicago.

We have known, and have made ourselves, some splendid sales there, but when it comes to the average for the season Chicago is invariably ahead, especially in a year of heavy supply. Fair minded New York people admit this, and it is too well understood among the heavier shippers of the West for argument.

The Fruit Auction System in Chicago, which was for years unsatisfactory, is now on a high plane and is fast gaining the confidence it deserves and doing an immense business.

As to the dealers themselves, there are a number of good ones in Chicago, but it is generally conceded, we believe, that if there is any one house at the top our house is that one.

We demand, and get, a fair rate of commission, and will accept nothing less, but we will give you value received for this commission.

We solicit the accounts of heavy shippers of fruit for either Chicago or New York sale. (You notice we put Chicago first.) Will sell at auction or otherwise, as you direct. We believe our responsibility is unquestioned.

F. NEWHALL & SONS

131 South Water Street

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J. ZENTNER, Vice-President

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Davis and Washington Streets

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Who wish to produce an apple which will keep two months longer than apples grown along the Columbia River, come to Baker City and investigate the famous Sunnyslope bench lands. Write for particulars to the

BAKER IRRIGATION CO.

BAKER CITY, OREGON

D. CROSSLEY & SONS

Established 1878

APPLES FOR EXPORT

California, Oregon, Washington, Idaho and Florida fruits. Apples handled in all European Markets. *Checks mailed from our New York office same day apples are sold on the other side.* We are not agents; we sell apples

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NEW YORK

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GLASGOW

MOSIER

Also called East Hood River

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In large or small tracts. Some very good land at low prices at present. Good growing community. Six miles east of Hood River. Parties wishing to buy will do well to write or see

GEO. CHAMBERLAIN
MOSIER, OREGON

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Famous for its APPLES, PEARS, PEACHES, GRAPES, MELONS AND CLIMATE

THE natural home of the Spitzenberg and Newtown apples. Rogue River pears have led the United States for past five years in the highest price in the New York market. No peaches of the South excel those of Rogue River, and trees are healthy. Grapes perfection in color and flavor and the best of shippers, and growers have more orders than they can fill. Rogue River cantaloupes, water-melons and cassabas, none better and big money makers. The Rogue River Fruit Growers' Union gets the highest price for fruit, and the Southern Pacific gives terminal rates on shipments East. Climate the perfect medium between arid California and webfoot Oregon. No storms or winds to injure fruit crop. Almonds and figs ripen perfectly and palms grow in the yards. Land yet cheap, but will double in two years. American community and good schools, rural mails, telephones, etc. Full information by addressing CHARLES MESERVE, Medford, Oregon, Seller of *Real Estate in All Parts of Rogue River Valley*. References by permission: Rogue River Fruit Growers' Union, First National Bank of Medford.

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We have some choice large tracts of land in Southern Oregon admirably adapted for orchards. One tract of a little over 1,000 acres at \$75 per acre. A SNAP. Must sell quick. We also have some large stock ranches with big back ranges adjacent, and some magnificent irrigated dairy farms. We buy and sell, and sell right. Correspondence or a visit solicited.

Grant, Burdick & Staples Realty Co.

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We sell improved and unimproved fruit land, also land under the government Tieton reclamation project. Write for booklet.

YAKIMA REAL ESTATE CO.

Box A186

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THE COMING FRUIT REGION

From the White Salmon to the Klickitat, opposite to Hood River, Washington Side of the Columbia

Elevation is right, soil is the deepest and best, climate perfect, market situation ideal by the great North Bank road and the Columbia. Lyle is the coming fruit belt. Watch this region for the next two years. Prices the very lowest. Get in for the certain raise. \$1000 invested now will bring larger returns than any other investment you can make in fruit lands. I have large or small tracts, some exceedingly desirable. Come and see me, or write and tell me what you want.

GEO. A. SNIDER, Lyle, Wash.

Benton County booth won first premium at Oregon State Fair in 1907.

CORVALLIS OREGON

County seat of Benton County, in the heart of the famous Willamette Valley. Greatest dairy land on earth; county produces finest mohair grown; land unsurpassed for fruit, peaches, prunes and apples in particular. The best farm lands cheaper than at any place in the valley; no inflated values. Corvallis has a population of 5,000; 125 residences constructed since January 1, 1908. Oregon Agricultural College, 1156 students, located here. Purest mountain water, sewerage, electric lights, steady, healthy growth. Opportunities here worth YOUR while. Write Corvallis Commercial Club for particulars.

North Yakima

Principal City in the Yakima Valley

Centrally located in one of the finest fruit regions of the State. Excellent home town. Headquarters for sale of bearing orchards and thirty thousand acres orchard land under new government canal. For information address

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AND

Royal Ann Cherries

We are the largest owners and planters of walnuts in Oregon. Our properties are in Yamhill County, the Walnut County. We sell planted five acre tracts \$100 cash and \$15 per month with four years' care

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Incorporated

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Apples Pears Plums Peaches Prunes Cherries Berries

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THE LAND OF OPPORTUNITY

Located across the Columbia River from Hood River, Oregon, the White Salmon Valley offers the greatest opportunities of any land on earth to fruit growers. Where apples, cherries, pears, peaches, prunes and strawberries grow to perfection. A few dollars invested in fruit land today will return to you in a very few years sixty-fold. The soil, climate, water and scenery are unsurpassed by that of any country. Build a home where you can enjoy peace and plenty the remainder of your life. Fruit lands cleared, planted and cared for until in a bearing condition. Write us for descriptive matter and prices.

ESTES REALTY & INVESTMENT CO.
WHITE SALMON, WASHINGTON

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Spitzenbergs

Winesaps

Strawberries

Nuts

For Bargains in the Famous

WHITE SALMON VALLEY

GO TO **R. FIELD & CO.**

R. FIELD, Manager

Pioneer Real Estate Dealers

WHITE SALMON, WASHINGTON

Have for sale all kinds of property, including fruit, dairy, timber and city property. Low prices and easy terms. All property guaranteed as represented. We can supply your every want. See our list before buying. We can save you money

Stephens & Hause**FRUIT LAND**

IN SMALL AND LARGE TRACTS near Goldendale, Washington, in one of the best newly developed fruit belts on the Pacific Coast. We also have some choice wheat farms, meadow land and stock ranches for sale.

For information and description write

STEPHENS & HAUSE

Goldendale, Klickitat County, Washington

**THE GREATEST OFFER
IN WASHINGTON**

No winters, no rheumatism, no lung troubles, 300 days of sunshine; \$400 monthly income for life from 5 acres, besides enhanced values; great future. For Sale—5 acres, inside city limits; finest cottage with all modern improvements; fully planted to bearing peaches, grapes, etc.; soon paying \$5,000 yearly income. Raw land, \$150 per acre, on 5 years' time. Free booklet, price list, reliable information.

Hanson-Rich Investment Co.

KENNEWICK, WASHINGTON

H. R. A.

**HOOD
RIVER**

APPLE LAND

H. R. ALBEE

HOOD RIVER, OREGON

**THE HOOD RIVER
LAND EMPORIUM**

HOOD RIVER, OREGON

POSSESSES

CLIMATE—A desirable medium between the drier eastern and the more moist western conditions of the Northwest.

SOIL—Volcanic ash, rich in phosphates, and recognized as the best in the world for apples and strawberries.

Makes a specialty of real estate, conveying, loans and surveying. The president, John Leland Henderson, is a practicing lawyer residing in Hood River, and has been identified with the Hood River Valley for thirty years.

**Underwood and
Little White Salmon****Choice Fruit Land for Sale**

I have a number of choice places for sale, improved and unimproved. Some with good heavy timber, ranging in price from \$18.00 to \$100.00 per acre. I make a specialty of small tracts

F. W. DEHART

UNDERWOOD, WASHINGTON

Young Orchard for Sale

Owner having more land than he can handle, will sell 25 or 30 acres A1 fruit land at Underwood, Washington, "The Gateway of the White Salmon Valley"; 15 minutes' walk from steamboat landing and railway station. Good stable and comfortable camp, finest of water. About 9 acres young Newtown and Spitzenberg trees; several acres almost ready for trees. Finest of early strawberry ground; magnificent views of both mountains. Underwood, Washington, is one mile from Hood River, Oregon. Soil equally productive, fruit identical; price one-fourth. Numerous other tracts for sale, but the above is the greatest bargain and money maker on the market. For particulars, address,

P. I. PACKARD,
Underwood, Washington.

BURBANK & AMOS**REAL ESTATE**

Irrigated Fruit Lands in the Famous Vale of Cashmere
The Garden Spot of Washington

CASHMERE, WASHINGTON

**SOUTHERN OREGON
FRUIT LAND**

Two hundred acres second bench, partly cut over timber land, deep red soil, lays well, on best road in county; seven miles from Grants Pass, quarter mile from school; adapted to the raising of apples, pears, peaches and grapes; R. F. D. and rural telephone. Sold in any amount from ten acres up. **\$32.50 per acre.**

JOHN H. ROBINSON

Route 2, GRANTS PASS, OREGON

L A N D**OF BIG, RED APPLES**

**WE ALWAYS HAVE SOME
CHOICE TRACTS TO OFFER**

At popular prices and sell them strictly on their merits. Years of study given to Hood River and its products. Can sell you intelligently. Call on or address

Geo. D. Culbertson & Co.

Leading Land Agents Hood River, Oregon

Mosier Fruit Lands**Apples Without Irrigation**

Seventy-two miles east of Portland, six miles east of Hood River; the eastern portion of the Hood River fruit district; 15,000 to 20,000 acres good fruit land, only 1,000 in cultivation. Prices, \$20 to \$1,000 per acre; produces \$250 to \$500 net annually when in full bearing. No irrigation, with the right kind of soil and climatic conditions, gives us apples that are unsurpassable.

IMPORTANT

Our apples grown without irrigation can be kept all winter and then shipped to any market in the world, and still be in good condition. This gives us a market that is never overstocked, regardless of how much is raised in irrigated countries. Splendid opportunities for investment. Call on or address

H. E. WAITE, Mosier, Oregon

**WALNUT
ORCHARDS**

17 Walnut Trees—55 Peach Trees—to the Acre

Five acre tracts on the installment plan. Walnuts from one tree sold for \$40 last year. One hours ride from Portland

WALNUT PLANTATION Co.

MANCHESTER & WILSON, Sales Agents

508 Wells Fargo Building

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**WANTED
Exclusive Agent**

To sell choice fruit land in the famous Bitter Root Valley, the home of the McIntosh Red Apple. Prices, \$100 to \$150 per acre; easy terms. Sure to double in value within two years. Yields of \$1,000 per acre from apples, pears, etc., are common. Absolutely free from all harmful pests and killing frosts. The Valley of Opportunity. The land of perfect fruit. Address

Bitter Root Valley Irrigation Co.
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Richey & Gilbert Co.H. M. GILBERT, *President and Manager*

GROWERS AND SHIPPERS OF

YAKIMA VALLEY
FRUITS AND PRODUCESpecialties: Apples, Peaches, Pears
and Cantaloupes

TOPPENISH, WASHINGTON

**Lake Chelan Fruit
Growers Association***Growers and Shippers
of Choice Fruit*

We Guarantee Grade and Pack

ADDRESS G. H. RYAN, MANAGER

**Ryan & Newton
Company**Wholesale Fruits & Produce
Spokane, Wash.We have modern cold storage
facilities essential for the
handling of your products.

Reliable market reports

PROMPT CASH RETURNS

**PORTLAND
BROKERAGE CO.***Consignments solicited with quick returns*FRUITS, PRODUCE
BUTTER AND EGGS

TELEPHONE A 5758

206 Stark St., Portland, Oregon
Between Front and First Streets**Rockford Fruit Growers'
Association**Shippers of fruits grown without
irrigation and therefore having the
finest flavor and keeping qualities.
We guarantee our pack and market
nothing but first-class products in
every particular. Write us now for
future delivery. Address Rockford
Fruit Growers' Association, Rock-
ford, Washington.**YAKIMA COUNTY
HORTICULTURAL
UNION**

NORTH YAKIMA, WASH.

*E. E. Samson, Manager*APPLES, PEARS, PRUNES, PLUMS,
PEACHES, CHERRIES, APRICOTS,
GRAPES AND CANTELOUPESMixed carloads start about July 20.
Straight carloads in season. Our
fruit is the very best grade, and
pack guaranteed.*We Use Revised Economy Code***Levy & Spiegl**

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FRUITS & PRODUCE
*Commission Merchants*SOLICIT YOUR CONSIGNMENTS
Top Prices and Prompt Returns
PORTLAND, OREGONLouis Barzee, Pres.; E. L. Cannon, Secy., Roseburg,
H. N. Cobb, Manager, Roseburg**Douglas County Fruit
Growers' Association**Packers and Shippers of Choice
Umpqua Valley Fruits

Head Office, Roseburg, Oregon

**LINDSAY
& CO. LTD.**

Established 1883

HELENA, MONTANA

Branch houses at Great Falls, Montana;
Missoula, Montana; Billings, Montana.IF YOU WANT TO
MARKET YOUR**FRUIT**

RIGHT, ALWAYS SHIP TO

W. B. Glafke Co.WHOLESALE FRUITS
AND PRODUCE108-110 Front Street
PORTLAND, OREGON**FAMOUS HOOD RIVER
Strawberries**THE FINEST BERRY
ON EARTH AND
THE BEST SHIPPERLOOK GOOD, BUT TASTE BETTER
Fancy Pack Guaranteed

FRUIT GROWERS UNION

HOOD RIVER, OREGON

**FAMOUS HOOD RIVER
APPLES**Spitzenbergs, Newtowns,
Jonathans, Arkansas Blacks, Ortleys, Winesaps,
R. C. Pippins, Baldwins, M. B. Twigs, Ben Davis*Look Good, Taste Better, Sell Best*

GRADE AND PACK GUARANTEED

Apple Growers Union

Hood River, Oregon

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BROS.**WHOLESALE
FRUIT &
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Growers and Shippers of the Famous

Mosier Valley Fruits
Portland, Oregon

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Superior facilities for handling

**PEACHES
APPLES AND
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Reliable Market Reports Prompt Cash Returns

Paid up Capital \$75,000

**THE
LAWRENCE - HENSLEY
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**Davenport-Thompson
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Commission Merchants**We are prepared to get the best prices for
all consignments of Fruits, Vegetables,
Potatoes, Etc., entrusted to us.Phone Main 462 144 FRONT STREET
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PORTLAND, OREGON**McEwen &
Koskey**Wholesale Fruit & Produce
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Merchants ~ 129 Front
Street, Portland, Oregon**Consignments**Are solicited, all your shipments
receiving our personal attention**H. WOODS CO.**

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Apples, Peaches and Strawberries

127 South Water Street
CHICAGO, ILLINOIS**Mark Levy & Co.**COMMISSION
MERCHANTS**WHOLESALE FRUITS**121-123 FRONT AND
200 WASHINGTON ST.
PORTLAND, OREGONTHE
**DAVIDSON
FRUIT CO.**of
Hood River, OregonPioneer fruit packers and shippers
of this famous section. "Quality"
is our watchword, and "Fruit
Worth the Price" is our motto.
Wire or write us for apples, straw-
berries or pears in season in car
lots or smaller shipments. Other
fruits in season in less quantities.

CORRESPONDENCE SOLICITED

**RYAN &
NEWTON CO.****Wholesale Fruit and Produce****BUTTE, MONTANA**We have modern cold storage facilities
essential for handling your products.
A strong house that gives reliable
market reports and prompt cash returns**THE OLD RELIABLE
BELL & Co.**

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FRUITS AND
PRODUCE**109-115 FRONT STREET
PORTLAND, OREGON

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1907If you appreciate this kind
of a house, when you have
fruit to ship, write to**A SIMPLE
PROPOSITION**Dealing with an old established
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Portland, Oregon

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PORTLAND, OREGON

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E. P. LOOMIS & CO.

[NEW YORK CITY, NEW YORK]

Send Your Fancy Boxed Apples to Us

We will get you the top prices on this market. We can handle to the best advantage your Spitzenbergs, Newtown Pippins, Arkansas Blacks, Winesaps, Red Cheeks, Rome Beauties, Jonathans and Grimes Golden. We have handled for the last ten years thousands of boxes of the cream of the above varieties grown in Oregon, Washington, Idaho and Colorado and have built up a large trade who are ready to pay fancy prices for fancy quality, so that our returns to our many shippers have been most satisfactory. We send account sales with check for net proceeds realized, as soon as each car is sold. This is the year to ship on consignment to an old established house who will get for you the full value of your shipments. *Boxed Apples are Our Specialty*

*Mail will reach one of our firm at Hood River, Oregon, during September and October
We have large cold storage facilities on our own premises*

E. P. LOOMIS & Co., [*Established 1868*] 95-97-99 BARCLAY STREET, NEW YORK CITY, NEW YORK

Fruit Grower and Shipper

If You Want Good Results, Consign Your Shipments to

THE GREAT CENTRAL MARKET—CHICAGO

Which is not only one of the largest consuming markets in the United States, but being the greatest railroad center in the world is, therefore, the most important diverting point for all Western and Northwestern shippers.

If you desire experienced and capable marketing agents to properly distribute and sell your fruit, either in Chicago or other markets, wherever best prices can be realized, write or wire us. Will always quote you conservatively.

N. G. Gibson, the head of this company, and W. C. Michael, our general Western representative, were two of the first fruit dealers to commence shipping and marketing Northwestern fruit in the Eastern markets. Our long experience and wide acquaintance with the buying trade all over the United States place us in an exceptionally strong position to secure you best results on what you have to market.

We make a specialty of selling f. o. b. entransit, or delivered, whichever way will bring highest net results to the shipper. We give all fruit that has to be sold at auction our personal attention. We also handle export shipments, our foreign representatives being the best and most reliable dealers in the principal foreign markets.

We refer you to The First National Bank, Chicago; Produce Reporter Company; their Weekly Credit Sheet of June 20th, 1908.

GIBSON FRUIT COMPANY

141 SOUTH WATER STREET, CORNER CLARK

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Steinhardt & Kelly

101 Park Place, New York, N. Y.

*The largest and most extensive fruit concern in the world
operating in all the fruit growing sections of the civilized globe*

Exclusive Purveyors of High Class Fruits

THE VERY FIRST CONCERN TO
EXTENSIVELY INTRODUCE THE
OREGON APPLES
TO THE CONSUMERS OF THE EAST

*Sole importers into the United States of fresh fruits, both out-
door and hot-house, from Asia, Africa, Europe, Australia*

Hood River

OREGON

*Greatest Apple Growing
Valley in the World*



HOOD RIVER'S FAMOUS PACK

Where fruit pays from \$500 to \$1500 per acre and is marketed for you at the highest prices paid anywhere in the world, while still on the tree. Forty thousand acres of finest apple land still undeveloped. One hundred thousand horsepower going to waste in its streams. Population, 6000; value fruit products, 1907, \$400,000; value lumber output, 1907, \$750,000; taxable property, \$2,700,000; bank deposits, 1901, \$36,000; 1907, \$690,-494.31. Railroad and water transportation. Two hours from Portland, twelve hours from Seattle and Spokane. Rural mail delivery. Phone service covering city and valley. Let us tell you about it. Address

**PUBLICITY COMMITTEE
HOOD RIVER COMMERCIAL CLUB**

Do it now—today

HOOD RIVER, OREGON

Hood River Opportunities

Any of these will make you a beautiful home and a safe investment

437.—20 acres 5 miles out on the East Side; 5 acres in 6-year-old trees, 4 acres in 2 and 3-year-old trees, balance in 1-year-old trees; all good varieties. Small house and barn; on main traveled road; near school, church, stores and railway station; A1 apple land. Price \$9,500.

451.—40 acres 5½ miles out on East Side; 25 acres in trees from 2 to 12 years old, good part in bearing; all but 4 acres first-class apple land; near school, stores, church and railway station; 6-room house, small barn, all farm tools. Price \$11,000. Terms.

441.—18 acres; 7 acres in trees from 1 to 4 years old, 6 acres strawberries, 3 acres clover, 1 acre uncleared. Small house and good barn and windmill. Price \$10,500. Terms.

LEM.—10 acres 3 miles out, West Side; 3 acres 3-year-old trees, 3 acres 1-year-old trees, balance in clover; beautiful building site; 10-inch water stock. Price \$6,000. Very easy terms.

470.—9 acres 1½ miles out on main road; all first-class apple land; 3½ acres 4-year-old trees, 4 acres 2-year-old Spits and Newts, 1½ acres hay, 5 inches water stock. Will sell 7 or 9 acres for \$700 per acre.

477.—20 acres 7½ miles out on East Side; 6 acres plowed and ready for trees, about 11 acres slashed and ready to pull; all first-class apple land. Very slightly building location not far from Hood river. Price \$2,300. Very easy terms.

473.—20 acres in Crapper district; 4 acres 10-year-old Spits, Newts, Ben Davis, etc., 3 acres 1-year-old Spits, 2 acres 2-year-old Spits, ½ acre 6-year-old home orchard, 2½ acres alfalfa, 1 acre strawberries between the trees, 3 acres ready for crop, balance uncleared; 2-story 7-room house, good barn, sheds, chicken houses, etc.; farm tools, stock, etc. Price \$12,000. Half cash, easy terms.

235.—203 acres in Mount Hood district, 12½ miles from town; 50 acres in cultivation; 8 acres in orchard, good variety of trees, 1 acre strawberries, 40 acres timothy, alfalfa and clover, balance in vegetables. One new 11-room house and one smaller house, two large barns, sheds, etc.; complete blacksmith outfit, farm tools and implements; household furniture; all livestock, wagons, hack and harness; 150 acres good timber; all first-class apple land; on main road. Price \$20,000.

We have what you want. If you do not see it here, write for our complete list

J. H. Heilbronner & Co.

THE RELIABLE DEALERS

Portland Office
408 Corbett Building

Hood River Office
Davidson Building

BETTER FRUIT

A MONTHLY ILLUSTRATED MAGAZINE PUBLISHED IN THE INTEREST
OF UP-TO-DATE AND PROGRESSIVE FRUIT GROWING AND MARKETING

CHERRY GROWING IN THE WILLAMETTE VALLEY

BY J. R. SHEPARD, SALEM, OREGON

IN REPLYING to the questions relating to locality, soil, exposure and elevation best suited to cherries, I am not as ready with an answer as I was in past years. The cherry fairs have demonstrated that all parts of the Willamette Valley are equally good, though local conditions may have strong influence. The fame of our cherries is probably due to moderate temperature while ripening and humidity in the atmosphere, prolonging the growing and ripening period, thus producing the largest and best cherries ever grown, well adapted by reason of their firmness for distant shipping, without sacrificing the spicy, luscious juiciness and flavor essential to this claim.

Well drained, rich soils of whatever altitude are good, the crop on low lands coming into market from one to three weeks earlier than on the uplands and the trees growing larger and requiring more room. Location, exposure and elevation count for less than distance apart, cultivation, pruning and care. Set your trees from thirty to thirty-five feet, top low, prune for wide-spreading branches that will make picking easier, give regular shallow cultivation and cut out all gum pockets as soon as discovered. The protection of the body from sun-scald would often save a tree in its early life, especially where the tree has been topped too high and much of its body left exposed.

Varieties

At the recent cherry fairs, the Bing, Lambert and Royal Ann outdistanced all others. No one would now think of setting out many of any other varieties. For home use, the Early and Late Dukes and Black Tartarian are indispensable. The latter will pay to set out in a small way to supply the early market, and is unsurpassed by the Bing or Lambert in flavor, though smaller in size.

The Bing originated with Seth Llewelling, the pioneer nurseryman at Milwaukie, Oregon. As a bit of history, let me say that I visited Mr. Llewelling about the year 1888 to secure a start of his great new cherry. He showed me a tree seven years old which, I understood, was his first grafted Bing. That tree must now be twenty-eight years old. He drew my attention to a Chinaman working in his dry-house, saying that because of his nine years of faithful service, he had given his name, Bing, to his greatest achievement in horticulture.

The Lambert originated as a seedling tree on the premises of Mr. J. H. Lambert, also in Milwaukie. In the year 1892, Mr. Lambert presented the State Horticultural Society, of which Mr. E. L. Smith, of Hood River, was then president, with the sole right to the scions from his tree, and the society sold the

right to propagate it to the Oregon Nursery Company, of Salem, that same year.

A new cherry has entered the field—the Giant which originated at Woodlawn, near Portland, on the place of Mr. Julius Kalich. It is evidently a cross of the Lambert and Bing, possessing the good features of both and gives promise of proving superior to either. Over 1500 trees have been placed on the market by Mr. Kalich this season, hence we will soon have them in ample quantity. The close resemblance of this cherry to the Lambert leads me to hesi-

of a new and record-breaking variety, that an event which a few years ago would have been heralded as of greater importance than the granting of a constitution to his subjects by the Sultan, is now accepted as a matter of course. Since beginning this article, I have been shown what I believe to be a new and unnamed cherry, of whose existence this is the first intimation in print, which I anticipate will be the peer of all others—thus far. One pauses to ask where the end will be. The field for breeding new varieties of cherries has certainly been found, and the young horticulturist who takes up this work will no doubt cover himself with glory.

Marketing

It is common to hear the opinion expressed—but never by those who are well posted—that the cherry market will be oversupplied and that it is time to call a halt in setting out orchards. The low price of cherries the past season is to such people an evidence of this. We are not yet raising cherries in the Willamette Valley. We could not supply the markets of Chicago alone. Conscious of the responsibility involved, I unhesitatingly advise the setting out of cherries in the Willamette Valley wherever the location, soil and other conditions are favorable.

The chief market for the white varieties will continue to be the canneries. We will see a steady demand for the Royal Ann and like varieties at fair prices. The darker varieties will be shipped in refrigerator cars all over the East as soon as we have them, and no doubt profits will be greater than for the canning cherries. Growers will learn to pack direct in the orchard and the cherries will ship to London, if cooled before shipment. A car every morning will be started to each of several of the larger, and one or two cars per week to each of the smaller cities of the East—when we have them to ship. Or should I have said train loads? It will require from six to eight acres of nine-year-old trees to yield a carload. Our orchards are young yet.

I am constantly harping, however, on the danger—not of oversupplying the market—but of planting beyond one's ability to harvest. It is as easy to set out 100 acres of cherries as a like amount of apples; but at harvest time, twenty acres of cherries represents as much labor as 100 acres of apples. Only skilled labor can profitably be employed in picking cherries, and that will be difficult to secure in quantity. Aged people, women, girls or small children can pick hops or berries. None of these can pick cherries profitably. The cherry is the only small fruit we pick from a ladder. It is only boys and young men who can run up and down a

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tate in pronouncing it a new creation. Another season will demonstrate this point fully. It should be the province of the State Horticultural Society to pass upon such matters, and I hope the annual meeting will take it up, referring the question to a committee for thorough investigation.

The cherry can be grown over a very large area of the United States, but it has long been known that the cold regions of the East and the hot regions of the South are not adapted to the growth of the large sweet cherries that do so well in the humid temperate climate of Western Oregon and Washington. The smaller sour cherries, being very hardy, grow almost everywhere, but need not be considered here as they have no commercial importance.

The Willamette Valley has made an amazing record in the production of new and astonishingly large, fine, sweet cherries. So frequent has it become to hear

ladder all day and move their ladders without injury to the tree. Pickers cannot injure hops or berry vines through carelessness, but carelessness breaks off many a cherry spur. So let there be many more cherry orchards set out, but let the average of each be limited to your ability to harvest, unless you want your orchard to resemble a hop field at the close of the season.

Gumosis

In approaching this subject, I do so with great hesitation, for to hazard an opinion even, is to invite defeat. I am not familiar with the scientific discussion of this, the greatest annoyance with which the cherry grower contends, but the very name, Gumosis, now generally accepted, would seem to indicate that it is regarded as a germ disease.

The fiber of the Royal Ann, and to a less degree that of the Lambert and Bing, is softer than that of the more hardy varieties. This is readily seen in preparing grafts, the wood showing a sponginess and the knife not leaving the sharp, polished surface seen in harder woods. The sap cells are therefore more easily ruptured. The cherry is a great feeder and where moisture is abundant in the soil, sap is taken up greedily. The moisture so taken into the body of the tree may be greater in amount than the foliage can dispose of through lack of evaporation, due to low temperature, or because the sap has started quickly in the spring before the foliage is out. The result will be a rupture of the sap cells where weakest, producing a pocket of sap between the cambium layer and the wood. This pocket, if not opened, rapidly enlarges, sometimes girdling the tree.

If this theory is correct, I would expect to find my trees bleeding when these conditions exist: A sudden, warm, early spring starting the sap quickly

before the leaves have had time to develop; or a warm, rapid-growing period in the spring or early summer followed by a sudden cloudy, cool spell checking evaporation but not checking the flow of sap.

There will be objections to all this which I cannot answer. I merely suggest it as a possibly explanation, and no doubt will receive merited derision for the suggestion. I have never believed it due to a germ, and the above would make it purely a physical trouble.

The Oregon Agricultural College has taken this work up, I understand, through Professor Griffin, an assistant of Professor Cordley, and we will hope for good results.

CHERRY EDITION OF BETTER FRUIT IS FINE

BBETTER FRUIT was never better than now. The August number is not only handsomely printed and beau-



CUPS WON BY J. R. SHEPARD AT THE SALEM CHERRY FAIR, 1908
First Prize "Better Fruit" Cup Sweepstake. First Prize for Bings. First Prize for Lamberts in Cartons. Third Prize Polk County Exhibit

Of course, the remedy would be top grafting on hardier stock, or the propagation of equally as good or better fruit on wood with stronger sap cells. I would also watch closely for gum pockets and cut them out immediately.

tifully illustrated, but contains a volume of good stuff regarding cherries. The number is rightly called the "Cherry Edition." It contains the following articles, nearly all of which are illustrated with half-tone cuts: "Descriptions and Cultivation of the Cherry," by W. S. Thornber; "Cherry Culture in the Pacific Northwest," by R. H. Weber; "The Fruit Industry of Eugene, Lane County," by W. G. Allen; "The Willamette Valley a Fruit Country," by H. S. Gile; "A Grower's Opinion of Cherries in Oregon," by H. M. Williamson; E. H. Skinner on "The Growing of Cherries"; "Some Ashland Oregon, Royal Ann Cherries"; "Cherry Growing on the Western Coast"; "Salem the Capital of the State of Oregon," and many others.—Evening Telegram.



GENERAL VIEW OF THE SALEM CHERRY FAIR, 1908

THE DEVELOPMENT OF YAMHILL COUNTY, OREGON

YAMHILL COUNTY, Oregon, is the garden spot of the Pacific Northwest. All along the Coast the fame of this county has, for a generation, been expressed by the slogan, "Yamhill against the world," and its name has become a synonym for fertility. Its proximity to Portland, one of the two great markets of the Pacific Coast, and its excellent transportation

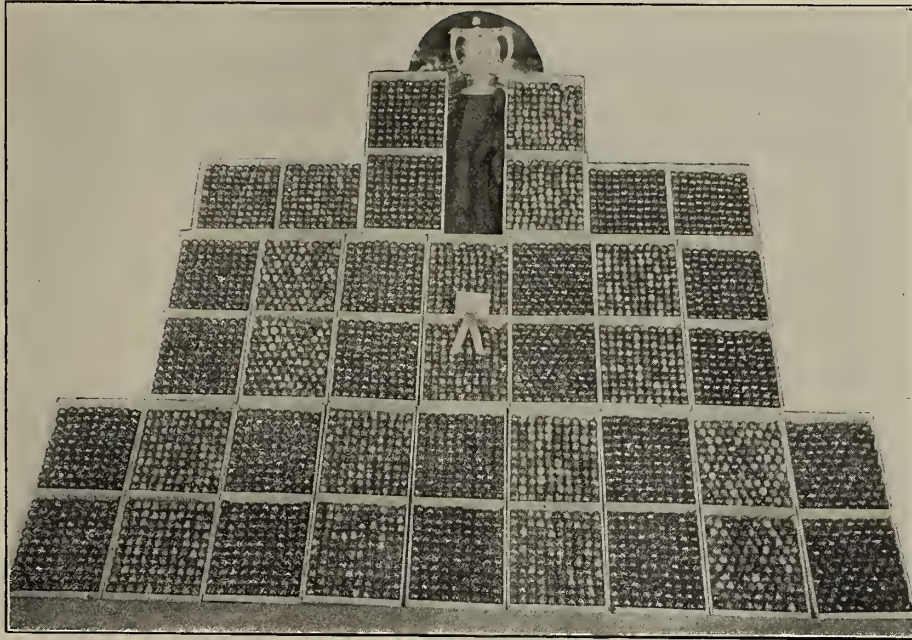
settled this portion of the Oregon country opens a virgin field for development work, for the latent possibilities of the county in all lines of agriculture and horticulture are almost limitless.

Here are big opportunities for investment; for within the next two years exploitation will so develop the fertile valley that values will be increased immeasurably and all to the benefit of

Portland, the chief city of the Northwest, with the mildest of mild climates, with rich areas of timber and prairie lands that will produce all the fruits, all the grains and grasses grown in the temperate zone, this section is certainly a marvel for the homeseeker. In addition to the cereals, some of the products of the county are clover (grown both for hay and seed), vetches, corn, hops, prunes, apples, pears, peaches, cherries, grapes, berries of every sort, English walnuts, filberts, potatoes and other vegetables, and all without irrigation. The abundant rainfall of winter is readily preserved in the soil during the temperate summers by cultivation. The seasons are delightful. Summer and winter are balmy. Oppressive heat is seldom felt, and nights are cool. In winter there are from ten to twenty days when the thermometer at some time each day drops below the freezing point. The rest of the winter the thermometer is above freezing. Sometimes it has dropped below 20, but only once or twice in a term of years has it reached so low a point. Blizzards are unknown. There are no sunstrokes. The county is in a protected belt, and enjoys even a milder climate in winter than surrounding portions of a mild country.

Public schools are of a high order and there are two colleges in the county. Improved farms can be bought for from \$30 to \$100 per acre. Orchards in bearing of course are higher.

Yamhill County is the natural home of the apple. The growing of fancy apples by specialized attention is here carried to its greatest perfection. Here is grown the highest type of Spitzenbergs produced in the world. The highest prices obtained in the world's markets for apples are paid for Yamhill County fruit. The flavor and keeping qualities of apples produced here are unsurpassed by the fruits of any clime

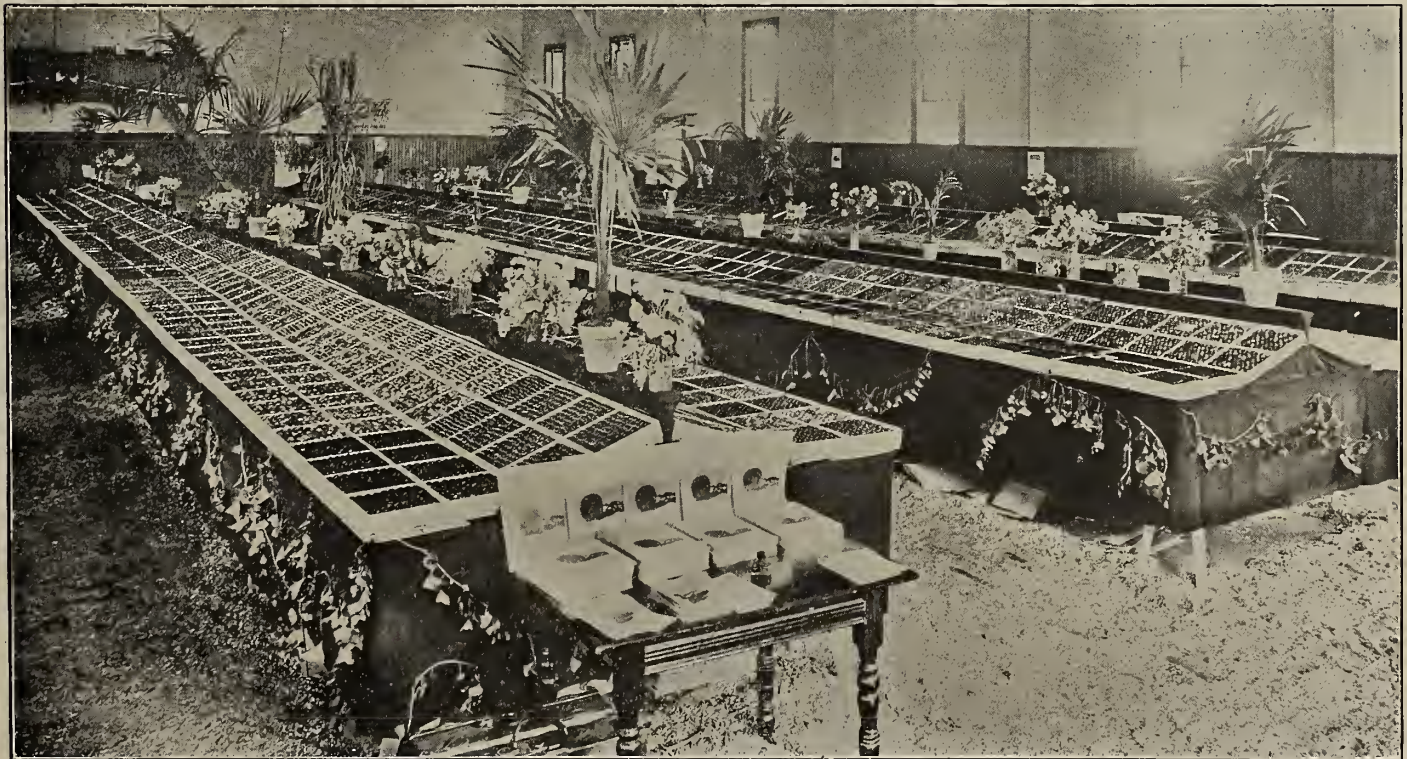


DISPLAY OF R. H. WEBER AT THE DALLES CHERRY SHOW, WINNING THE "BETTER FRUIT" CUP FOR THE BEST TWENTY BOXES

facilities, which put it in close touch with the markets of the world, make this county desirable for growing domestic products and fruit for foreign shipment. The rapid passing of pioneers who

the man who is quickly on the ground to take advantage of the moderate prices that prevail at present.

Situated in the heart of the rich Willamette Valley, within a few miles of



GRAND VIEW OF THE DALLES CHERRY FAIR, 1908

on earth. The yearly profit of bearing apple orchards is from \$100 to \$450 per acre. Much higher yields are often received, but it would be unfair to quote them as being an average. In the preparation of all booklets issued by the Yamhill County Development League the methods of exaggeration used by other localities in exploiting their resources have been avoided. It would be unfair to give as an average production the output of selected acreages or of sections of orchards or of individual trees or of exceptional yields of any crop. In the fertile valley of the Yamhill

Cherry growers often realize \$40 per tree and plantings are being increased rapidly.

The Oregon prune is known all over the commercial world and pays from \$100 to \$250 per acre profits per year.

Black raspberries grow luxuriantly and are dried in the sun, bringing from 19 to 25 cents per pound, and the demand utterly unsatisfied. Profits are from \$100 to \$150 per acre with comparatively little work.

Pears are equally profitable, for the Oregon Bartlett is the juiciest pear in the world and is the standard of com-

The growing of English walnuts is still in its infancy in Oregon, but in Yamhill its commercial importance has been successfully demonstrated. Vast plantings have been made in recent years. Yamhill walnuts bring the grower from 16 to 22 cents per pound; higher prices than are received by walnut growers in any other section in America.

The distinguishing characteristic of all fruits and nuts grown in this valley is their high flavor.

Our livestock is unbeatable. In the great stock show at the St. Louis Exposition, Yamhill County, exhibiting against the world, won the prize for champion herd of Shorthorns, besides numerous individual prizes. In the world competition at the Lewis and Clark Exposition, Yamhill County won first for champion herd of Shorthorns, the championship among Cotswold, Southdown and Shropshire sheep, besides many individual championships. Also many first premiums for draft horses. All these lines of industry are very profitable, as is also the raising of hogs. Great packing plants at Portland insure remunerative sale for cattle, sheep and hogs.

All forage plants grow luxuriantly and milk condensers and creameries are so plentiful that dairying is one of the most profitable industries in this section. The clover seed grown in Yamhill is sought for by dealers all over the United States, its reputation being that of the cleanest seed produced in the world. Clover often yields 10 and 11 bushels per acre and brings the grower from 12 to 18 cents per pound. Figure his profits.

Sheridan is one of the wide-awake towns of Oregon. Lumber, fruit, farm, dairy and poultry products are its sources of wealth.

A great plant for manufacturing fancy pressed brick is located near Sheridan.

Amity is celebrated for its fancy apples and pears and has a successful milk condenser.

McMinnville, the walnut city of Oregon, has a large milk condenser, a creamery, commercial dryers and other plants that furnish markets for all fruits and farm products. It is the county seat.

Lafayette is the center of the great apple district of Yamhill.

Newberg and Springbrook, close neighbors, have their canneries, their milk condenser, their mills, tile factories, etc. Their prunes and raspberries are unbeatable. They grow the earliest strawberries; also cherries one and three-eighths inches in diameter.

Dayton and North Yamhill evaporate more fruits and vegetables than any towns in Oregon.

Address the commercial clubs in the various towns. ♦ ♦ ♦

It was reported that prune contractors have formed a combine for the purpose of stimulating the demand, for the purpose of realizing better prices. Among the firms reported associated with this combine are H. S. Gile & Co., Willamette Valley Prune Association, W. C. Tillson of Salem, Roseburg Packing House, Allen's Packing House of Eugene, Lang & Co., Mason, Ehrman & Co. of Portland, French Packing Co. of Myrtle Creek and the Vancouver Packing House. It is expected and hoped that they will be successful in increasing the demand and advance the price for their own sakes as well as that of the grower.



"BETTER FRUIT" SWEEPSTAKE CUP AT SALEM CHERRY FAIR, 1908, WON BY J. R. SHEPARD, POLK COUNTY, OREGON

River these exceptional estimates might be multiplied by the thousand, but would not be representative averages. It might be well to add that these averages quoted above are not obtained without work. He who would prosper here in any line of endeavor must give intelligent attention to his undertaking.

The growing of cherries has received a great impetus during the last three years, for profits are made marvelous by the great development of the canning industry. No such Royal Ann cherries are raised anywhere as go to the markets from Yamhill. They are as big as plums and juicier. In this valley, too, have been originated at least four of the leading cherries of the world.

parison wherever the canned pear is handled. There are few great pear orchards in Yamhill County at present, but many will be planted in the next few years.

Blackberries are in great demand at the canneries and produce abundantly. The loganberry (a cross between the blackberry and raspberry) is probably more prolific than any berry known and will be in great demand for drying and canning and for jellies and marmalades.

Strawberries yield remarkably and are among the most profitable of crops. \$300 to \$400 per acre.

Peaches, though not widely grown, are of high quality and on suitable situations are very profitable.

WALNUT INDUSTRY OF YAMHILL COUNTY, OREGON

BY SENATOR W. H. WRIGHT, OF McMinnville, OREGON

NO OTHER industry is attracting so great attention in Yamhill County at the present time as that of growing nuts, especially the walnut. While this industry is yet in its infancy, and but very few commercial orchards are now in existence, yet sufficient progress has been made to prove that so far as the climate, soil and natural facilities are concerned, no place in the world excels this county for the production of high-grade English walnuts. A number of isolated trees have been bearing annually in this county for from twenty to thirty years, and during the past ten or twelve years a number of orchards have been set out which are now beginning to bear. The principal orchard now in bearing is that of Thomas Prince & Son, of Dundee, which has been bearing for the past three years. The annual production of this orchard has practically doubled with each succeeding year. His crop for 1907 was about seven or eight tons of first class, high grade nuts, which brought in the open market about two cents a pound more than that paid for the California walnut.

On the Oak Hill Farm, near North Yamhill, an orchard was set out a few years ago which has been bearing the past two years and which produces some of the largest nuts grown. In addition to these are a number of trees, especially around McMinnville, which have been bearing nuts annually for a number of years. These nuts are always well filled, of superior quality and shape, and in fact are better filled than the nuts which are grown on the higher ground. All of this indicates that with the proper care in selecting the nut to be raised and the soil in which the tree is planted, that the persons who set a walnut orchard in this county will have a nice income from his property within a few years.

One of the first and greatest cares to be observed by the persons who contemplate setting out an orchard of nuts is the selection of the trees to be planted. This is more particularly true of the walnut than of any other tree that is to be planted, from the fact that until recent years the planting of trees grown from second and third generation nuts was not given the attention it has been of late, and some nurserymen have often sold to prospective buyers nuts propagated from nuts of this class to the detriment of the purchasers. In addition to this, what is known as the California soft shell nut will not do well in this climate, and should a person secure trees of this variety he will be very much disappointed when it comes time for them to bear. In setting out trees, the grower should be certain that he has either grafted trees or trees grown from second generation nuts. These are the only trees that any one can afford to plant.

Experience has shown that the nuts to be planted in this climate are what are

known as the French variety of the English walnut. Among the leading varieties of these, and the ones which are generally recommended, are the Mayette and the Franquette. These are the varieties that are imported from France and sold in the Eastern market. The Eastern buyers who have examined the Oregon walnuts advise us that the walnuts raised here are equal to the best that are imported. This will assure us a ready market for our product as soon as we have orchards which can supply the market. Other varieties that can be

earlier than that, but not in large quantities.

The walnut tree is a very hardy one, and when once planted and started to growing will continue to live and bear for a greater length of time than almost any other tree. Instances are known of walnut trees bearing for more than 300 years. The older the tree, if properly cared for, the greater the production of nuts. Most growers of walnuts predict that when the trees are matured, ten or twelve to the acre will be sufficient. Those who have made a study of the

planting of walnuts vary in giving advice as to the distance apart the trees should be planted. Many of them plant trees forty feet apart, while others claim they should be planted at least fifty or sixty, but those that plant forty feet apart do so with the intention of eventually removing a great number of those planted.

It has been found that the soil best suited for the walnut is one in which the drainage is good and the soil deep and fertile. Yamhill County is peculiarly adapted for this growth on account of the deep and fertile soil and the ease with which the ground is drained.

Another great inducement for the planting of walnuts in Yamhill County is the price of the land. Good walnut land can be bought from \$50 to \$200 an acre which will produce equally as well and a better quality of nuts than the land in California which sells from \$500 to \$1000 an acre. A man of small means can purchase a few acres of land in this county, plant it to walnuts and plant berries and small fruit between his trees, thus making his living while the trees are growing, and in a few years he has property that will bring him in a large income. We believe that no place affords opportunities equal to that of the Willamette Valley, and especially Yamhill County, for this industry.

At McMinnville a club has been formed by those persons interested in the growth of walnuts for the purpose of studying the culture of walnuts. The members of this club are always willing to give any one who may desire the benefit of what knowledge they have gained.

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YAKIMA has established a splendid lot of rules for putting up high grade fruit. The complete rules are published in the October edition of "Better Fruit." Peaches will not be packed smaller than eighty to the box except in Alexander and Hales Early. Nothing smaller than six by six will be accepted in baskets for prunes, plums and apricots. All fancy pears must grade two and one-half inches in diameter, except Winter Nellis, which will be accepted one and three-quarter inches. In the fancy grades of apples nothing will be put up smaller than four and one-half tier, and no box will contain more than 165 apples except Winesaps, Missouri Pippins and Jonathans, which will be accepted in five tier.



GRAND PRIZE CUP AT SALEM CHERRY FAIR

Donated by Marion County and Won by Yamhill County. By courtesy "Pacific Homestead."

produced here to good advantage are the Chaberte, Proepaturians, and a few other like varieties. These, however, are not considered so valuable from a commercial standpoint as the Mayette and Franquette.

There is at present about 800 acres of walnut orchards set out in this county, and many other orchards will be set out in the spring, some growers planting as high as 100 acres in walnuts. These orchards require careful cultivation during the years preceding the time at which they commence bearing, and should be cultivated for some years afterwards. An orchard which has been properly set out and cultivated will commence bearing at from five to eight years of age. It is generally estimated, by persons setting out an orchard, that it will be producing nuts for market after having been out eight years, but in many instances they commence bearing

PROSPECTS OF BITTER ROOT VALLEY, MONTANA

NEVER has so much interest been taken in irrigation and irrigated lands, especially in the famous fruit valleys of the Pacific Northwest, as at the present time. Farmers and orchardists in the older states, discouraged by alternate drought and flood, harassed and annoyed by insect pests which destroy their crops and bring to naught the results of their hard labor, are looking with longing eyes on the prosperous irrigated fruit valleys of the

Northwest, where man is master of his own rainfall, where drought is unknown and where all fruit is fancy fruit.

In purchasing irrigated land one of the first and the most vital subjects to investigate is the quality of the water right that goes with the land. Unless the water right is absolute and certain, the water abundant and unfailing and to be had when and as required, the value of the land to be irrigated, however good its quality, is at best doubtful.

One of the most meritorious irrigation propositions, in respect to the absolute certainty of its water right, that has come to our notice is the project of the Bitter Root Valley Irrigation Company, of Hamilton, Montana, in the famous Bitter Root Valley. This valley is famous in the Pacific Northwest for the quality of its fruit, its freedom from insect enemies, its beautiful scenery and its equable climate. This company has about completed its irrigation canal, eighty-one miles long, twenty-four feet wide at the bottom and forty-two feet wide at the top, carrying a volume of water seven feet deep, and making this the greatest irrigation project ever undertaken by private means in a tried and tested fruit region.

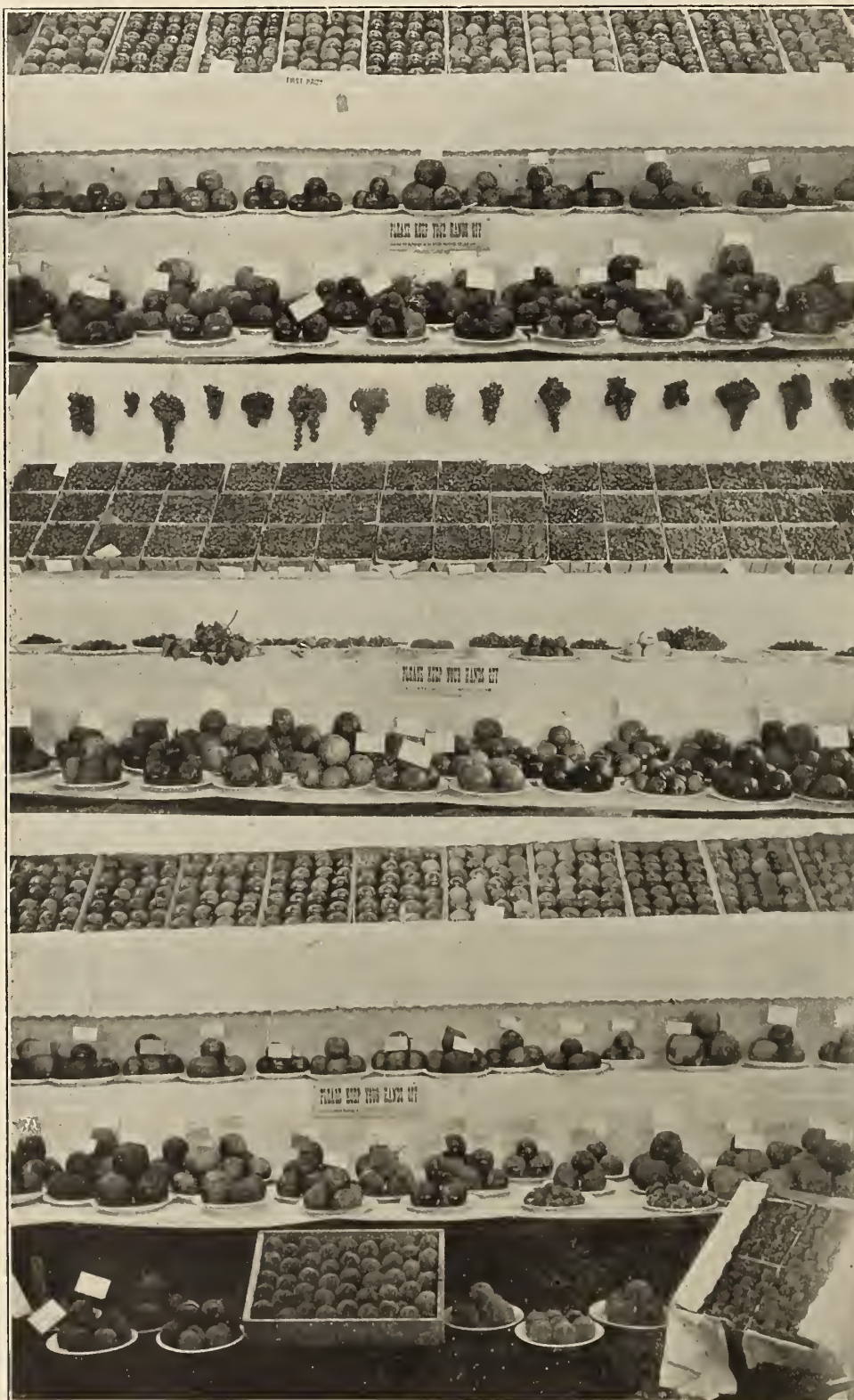
The company's source of water supply is twofold and abundant. At the southern end of the valley, in the Bitter Root Forest Reserve, is located Lake Como, the company's main reservoir. The rights to the use of this lake have been granted to the company by the Department of the Interior. The outlet to Lake Como is Rock Creek, and at this outlet the company has constructed a dam which, when completed, will be seventy feet high and will impound the waters of the lake. The lake covers an area of 1040 acres and drains a watershed of approximately seventy-five square miles, and when filled to its capacity will contain enough water to irrigate 80,000 acres of land, whereas the company has but 40,000 acres to sell.

As a secondary supply the company has obtained the rights to all the water in Lost Horse Creek, one of the heaviest flowing streams on the west side of the valley, and draining a watershed of fifty-five square miles. An auxiliary canal has been built whereby the water from Lost Horse Creek will empty directly into the company's canal, a short distance south of the dam already referred to, thus permitting the water from Lost Horse Creek to be used for irrigation while Lake Como, the company's main reservoir, is being filled to its capacity. It is figured that in ordinary seasons the water from Lost Horse Creek will be sufficient to irrigate all the lands of the company during half of the irrigation season without drawing on the main supply in the Lake Como Reservoir. During all this time there will be stored in Lake Como sufficient water, independent of the Lost Horse supply, to irrigate double the acreage the company will have to sell. It appears, therefore, that the company has taken every precaution to insure for its purchasers that first essential of irrigation farming, namely, an absolute water supply, and purchasers of land from the Bitter Root Valley Irrigation Company need have no fear of running short when they most need it, as sometimes happens under faulty and doubtful water rights.

The Bitter Root Valley is indeed a garden spot, and those who are interested in irrigated land will do well to write to the Bitter Root Valley Irrigation Company, 100 Washington Street, Chicago, or Hamilton, Montana, for full information and maps.

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CLARKSTON. Washington, peach growers are estimating their crop at anywhere from 200 to 800 cars. The country around Clarkston is specially adapted to growing fine peaches.



FRUIT EXHIBIT AT THE WASHINGTON STATE FAIR, NORTH YAKIMA

NOTES FROM THE OREGON EXPERIMENT STATION

A GREAT many miscellaneous samples are examined in the Corvallis Experiment Station chemical laboratory during the year, and while the tests made on many of the samples are only of immediate importance to the sender, yet the results of the majority of the analyses are of more or less value to the public in general.

The character of this work is quite varied. An unproductive soil may be analyzed and a treatment suggested for increasing its productiveness. A sample of feed may be tested, its per cent of protein, fat or carbohydrates determined so that the dairyman may know the proportion of it to use for his "balanced ration." Lead arsenate, Paris green, lime-sulphur, and various spraying materials are examined for the orchardist in order that he may know they are up to standard strength. Waters, fertilizers, building materials, food products, etc., are among the substances examined for people of the state.

In the long list of spraying materials now utilized by the orchardist many poisonous compounds are found. In the everyday use of these there is a tendency to forget their dangerous character and handle them somewhat carelessly. By way of caution it may be stated that some samples of cider that had been stored in barrels which originally contained lead arsenate were recently tested in this laboratory and arsenic was found in each sample, in one sample in weighable amounts. This cider would most certainly be dangerous to use, as the acetic acid formed in the process of fermentation would dissolve the lead arsenate residue left in the crevices of the barrel. As proof of the deadly character of lead arsenate, the stomach of a calf which had died with symptoms of poisoning was found by us to contain lead and arsenic. The incrustation on an old spray barrel to which the calf had access was found on analysis to consist of arsenate of lead, which the calf had no doubt been licking with the above result.

In the struggle to combat the ravages of pear and apple blight many treatments have been tried, and not a few "cures" invented. A sample of pear blight remedy was recently analyzed by us and found to consist of sulphur mainly, together with gunpowder, asafoetida, and a small amount of arsenic. Directions stated that the body of the tree should be bored, the stuff poured in and the hole tightly plugged. The insolubility of the ingredients of the mixture in the tree sap would prevent their being carried to the various portions of the tree and the substance no doubt would prove useless.

A sample of oil meal was recently analyzed for a dairyman who felt that the results he was getting from this feed would not justify the round price of \$40 per ton which he was paying for the same. The sample contained 16.06 per cent protein, or about half what good linseed meal should contain. Oregon does not yet have a law governing the sale of feeding stuffs.

The fuel question is one of the greatest importance to even our own heavily timbered state, for the rapid exhaustion of our timber in recent years teaches plainly that we must in the future husband our forests with all possible care. In this connection we have recently tested an interesting product in the way of a compressed beaverdam or peat

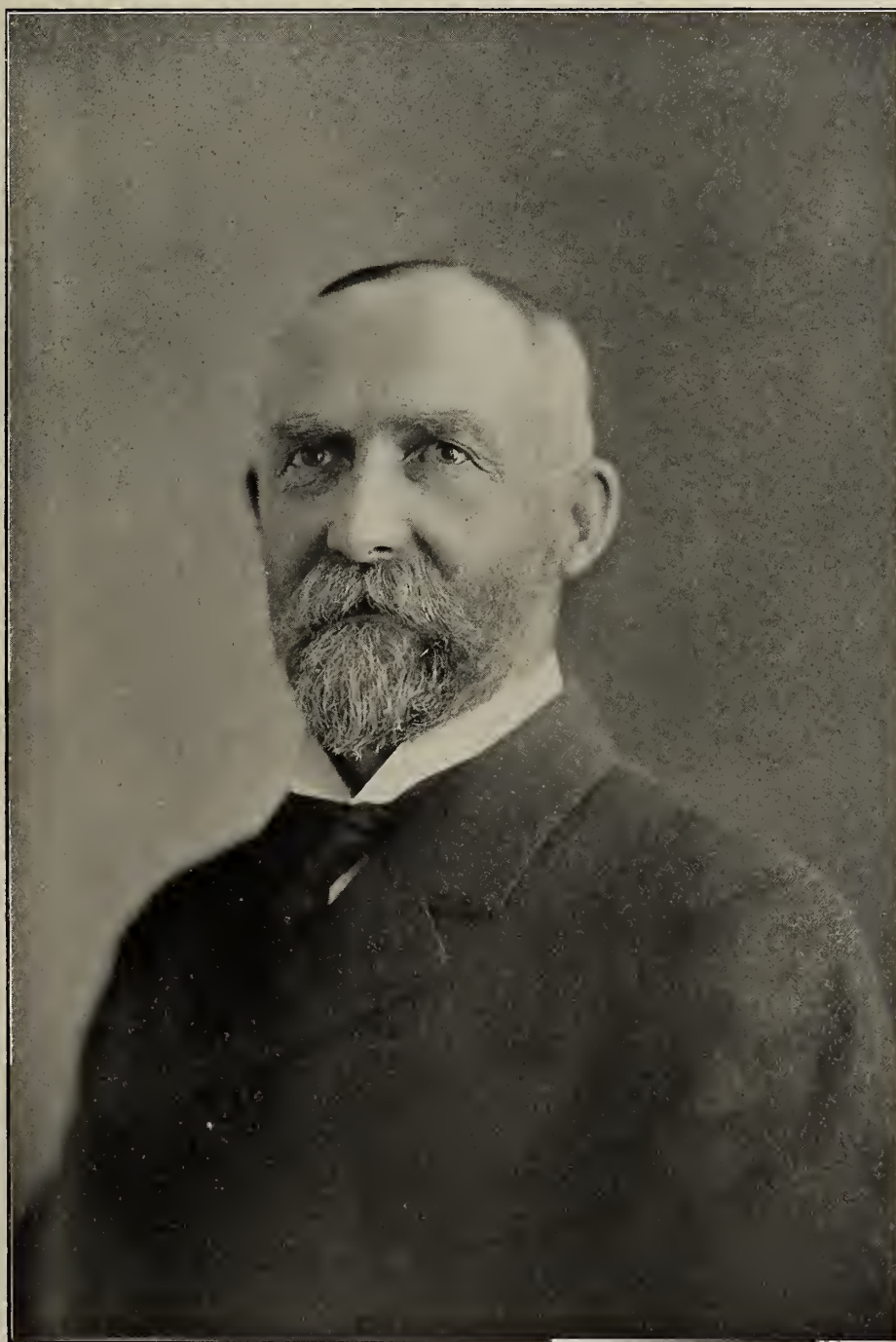
manufactured in our state for fuel purposes. The sample consisted of finely ground beaverdam which had been compressed and afterward dried. Its heating value was found to be 9,067 British thermal units per pound—a British thermal unit being the amount of heat necessary to raise the temperature of one pound of water one degree Fahrenheit. A sample of Irish peat which was submitted for comparison gave 8,267 British thermal units per pound. By way of comparison it may be of interest to note these values in connection with heating values we have obtained for other fuels.

Good coal	13-14,000	B. T. U.
Pitchy fir wood	11,822	B. T. U.
Charcoal	11,116	B. T. U.
Compressed beaverdam	9,067	B. T. U.
Old fir	8,394	B. T. U.
Irish peat	8,267	B. T. U.

The beaverdam lands, when properly mixed with clay, are well known as highly prized truck lands, containing from two to two and one-half per cent nitrogen, and are utilized to some extent as nitrogenous fertilizers. Their value as a fuel has not hitherto been tested. This compressed beaverdam can be handled cheaply and will, no doubt, prove a success as a fuel, although, from an agricultural standpoint, the application of these lands as such would be destructive.

C. E. BRADLEY.

♦ ♦ ♦
BETTER FRUIT gave a handsome cup for the twenty best packed boxes of cherries at The Dalles Cherry Show. It was won by R. H. Weber. "Better Fruit" has donated a handsome silver cup to the National Apple Show, to be held in Spokane in December.



DR. JAMES WITHYCOMBE, DIRECTOR OF THE EXPERIMENT STATION, CORVALLIS

INFERIOR FRUIT—WHAT IS NURSERYMAN'S POSITION

BY A. LINGHAM, PUYALLUP, WASHINGTON

IN JUDGING the standard of the different fruits, color and general appearance are important factors, but the actual decision is rendered only by testing the flavor and keeping qualities.

Rich, high color is usually preferred in ripe fruit, and yet we have many handsome red apples having coarse flesh and an inferior flavor. Some of these are large, attracting much attention at horticultural exhibitions.

Some of the most prominent among them are the Wolf River, Pewaukee, Ben Davis, etc., which often secure the highest awards and the misplaced admiration of the general public in exhibits of this kind, while the superior but less showy sorts or varieties, that have to be kept over before their prime condition is reached, are passed by without comment.

Professor H. E. Van Deman, United States Pomologist, drew attention to this fact when judging fruit exhibits on this Coast, claiming that these large inferior sorts should not be entered in competition for premiums, but only exhibited as monstrosities among fruits.

There are green and yellow apples possessing all the qualities required for a good commercial sort, and extensive plantings have already been made by prominent horticulturists in different sections of such kinds as Grimes Golden, Yellow Newtown, Northwestern Greening, etc., valuable sorts for foreign export, where they are preferred to the best red apples, and our own people are now placing a higher estimate on their good merits and making an exception in favor of them.

We all highly prize the Rhode Island Greening for delicious apple sauce and old-fashioned Thanksgiving mincemeat.

Looking at them from the nurseryman's standpoint, most of these inferior fruits make ideal trees in the nursery, appealing alike to the nurseryman and the purchaser of fruit trees, and when we consider there is more or less demand for them each season, we are almost inclined to continue propagating them in the nursery.

What a wonderful fraud the Ben Davis apple is as a fruit, and yet what a splendid appearance a block of these

trees will present in the nursery. We know that a block of Jonathans cannot hold a candle to them when it comes to upright growth and uniformity of body and limb, but when it comes to a question of quality in the fruit, many of us would prefer one Jonathan to a whole boxful of the Ben Davis apple.

Some of our most luscious flavored pears make the poorest looking trees in the nursery, growing crooked and slen-

orchardists referred to the apple crop as Sheep-noses; these were the green and yellow ones; those with a little red color were known as the Baldwins, and we have not forgotten the little red or blue seedling plums with their bitter skin, all bringing good prices and finding ready sale owing to the scant supply—surely things have changed somewhat since Johnny was a boy, and vast strides have been made at least in the horti-



CLASS IN SPRAYING, HORTICULTURAL DEPARTMENT, EXPERIMENT STATION, CORVALLIS

der from the ground up. How disappointing the flavor of the Kieffer pear is compared with such sorts as the Seckel, Bartlett, Clairgeau, or Winter Nellis, but if we could only impart some of the vigorous constitution of the Kieffer tree into some of these superior sorts, what a notable improvement would result, and in some instances better results are obtained by top-working on these inferior but more vigorous growing varieties.

Most of us remember the time here in the far West when the early orchards consisted of seedling fruits, and the

cultural world within the past twenty years. We find the successful orchardist combining scientific principles with his business, and making the growing and marketing of fruit his one specialty. We find certain fruit belts where certain varieties only can be grown successfully and with the greatest profit. West of the Cascades the ideal soil and climatic conditions do not prevail for growing all the large fruits to perfection, yet there are certain varieties naturally adapted to its section which would easily discount the same varieties if grown in the great fruit belts of Eastern Washington or Oregon, and with the same care and attention. Here, in this comparatively new section east of the Cascades, you have already demonstrated to the markets of the world that a grand inheritance has been acquired by those engaged in this great fruit industry, and innumerable inducements are still open to those who follow and make fruitgrowing their profession, for here exist all the natural conditions for commercial fruitgrowing on an extensive scale, and from the so-called barren sage-brush lands, with their volcanic ash formation, a reserve of wealth will flow, and when the crops are harvested, trainloads of fancy Spitzenbergs, Winesaps and Yellow Newtowns will command a degree of fame and prominence in the world's supply.



SECTION OF CAMPUS, WITH CADETS IN FOREGROUND, AGRICULTURAL COLLEGE, CORVALLIS OVER 1,500 STUDENTS IN ATTENDANCE. BY COURTESY OF STATION.

OREGON AGRICULTURAL COLLEGE AT CORVALLIS

AS THERE were no state colleges in Oregon in 1868, the Legislature of that year, which provided for the location of the land received under the act of 1862, gave the interest on the funds derived from the sale of the land to the Corvallis College, a private institution in Benton County, which was then under the control of the Methodist Episcopal Church South. None of the land granted was sold for a number of years, and the Legislature made small

improvements made from time to time, which have added to the thoroughness and efficiency of the work.

ton County was laid by the Governor of Oregon, amid imposing ceremonies. This structure, now known as the Administration Building, was the nucleus around which other buildings soon began to cluster as necessity and growing interest demanded. For a year or two there was ample room; but, as the institution grew more land was needed and provided, and instead of thirty-five acres originally comprising campus and grounds, the institution now

improvements made from time to time, which have added to the thoroughness and efficiency of the work.

Purpose and Scope

The purpose of the college is to provide, in accordance with the acts of Congress under which it is maintained, a liberal, thorough and practical education—an education that will afford the training required for efficient service in different branches of industry. The distinctive technical work covers the three great fields of production, manufacture and commerce. Special attention is given to the applications of science. All the practical work in the laboratories, in the shops, in the orchards and on the farm, is based upon scientific principles. While the industrial or technical work is emphasized, the importance of a thorough general training, of mind development and culture, is recognized in all of the work throughout the institution. The object is to meet the demand for a broad and general education, supplemented by special technical training.

The work, therefore, covers a broad field, including technical courses along the different lines of agriculture and forestry, commerce, pharmacy, engineering and household technology, with the necessary training in the basic subjects of mathematics and the natural physical sciences, and also the general training in language, literature, history and civics which constitutes an essential part of a liberal education.

In all the work of the institution, the object is to train the mind and eye and hand to act in unison; to unfold and co-ordinate the faculties of mind and body; to develop a symmetrical manhood and womanhood and a just appreciation of clean, upright citizenship.

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MARION County, Oregon, grows cherries very extensively. It was reported that growers have become dissatisfied with the contracts outlined by Salem canneries. It seems the growers' object to the terms laid down by the canneries. The canneries, wishing to take advantage of the low price this year, declined to contract a man's crop for the season unless he contracted for the next two years at the same figure. The growers are taking steps to make arrangements which will insure a reasonable market price.



HORTICULTURAL CLASSES IN PRUNING, GRAFTING, PACKING AND APPLE HARVESTING, OREGON AGRICULTURAL COLLEGE, CORVALLIS

annual appropriations for the support of the school.

In 1885 the church voluntarily relinquished its claim on the funds of the college, and the State assumed control of the institution. The Legislature of that year provided for the "permanent location of the State Agricultural College at Corvallis, in Benton County," on condition that the citizens of said county should, within four years, erect on the "farm containing thirty-five acres in the immediate vicinity of said city, known as the Agricultural College Farm, brick buildings for the accommodation of said State Agricultural College at a cost of not less than \$20,000." During the summer of 1887 the cornerstone of the building erected by the citizens of Ben-

owns 224 acres; and instead of one structure, there are now eighteen. There has also been an increase in the attendance from ninety-seven to 1156 students. Twenty years ago most of the students came from Benton and neighboring counties. Now every county in Oregon, and twenty other states and two foreign countries are represented. The increase in the number of students called for an increase in the number of the faculty. This body, from the number of five in 1884, has grown until it now closely approaches the fourscore mark. Other features usually found in connection with progressive educational institutions have grown in equal ratio. The courses have been strengthened, the standard has been advanced, and other



STATE COLLEGE OF WASHINGTON, AT PULLMAN, SHOWING THE PRINCIPAL BUILDINGS AND CAMPUS

CULTIVATION OF WALNUTS IN THE NORTHWEST

SOME time since you solicited an article for publication on walnut culture. We realize there are a great many of your readers interested, and as one of the first to engage in this industry, our experience and a few ideas may be of interest and not out of place.

First. We believe it has been demonstrated that we have the climate and also suitable soil for the growing of walnuts successfully in the Northwest.

Second. That the French varieties which start out late in the spring are the trees to grow, as the California propagated trees start too early in the spring and are cut back by frost.

Third. Whether the grafted tree or seedling should be grown is a question for us to determine, and about which there is a difference of opinion. The difference in price should not be considered, for the right tree at any price in reason would be cheap compared to the wrong tree if it could be procured for nothing. That the grafted tree will bear nuts more uniform in shape there is no question, that the seedling will grow a larger tree at seven and nine years of age (the age of bearing) has been our experience, and will grow more nuts and a good commercial product.

We were very much interested recently in an article from the late Felix Gellett to a correspondent, and in which he states that one-third of the nuts from second generation trees (seedlings) were superior to those grown on grafted trees, one-third equal to, while one-third would be inferior. With us we do not think more than 20 per cent are inferior, the remainder equal to, and many of them even larger and better shape than the nuts grown on the grafted trees. As our older trees in bearing grow very rapidly, many of them will have to be removed, and no doubt these may be the inferior trees, and if not it will be possible to top graft if found necessary. Top grafting being much more satisfactory than root grafting, we cannot understand why it is, if we should grow the grafted tree in preference to the seedling, that in the nut-bearing countries and in California this fact has not been found out, as we are quite sure for commercial product the seedling trees are generally the trees grown. In any new enterprise we should profit from those having experience, as it is often costly to follow some theory which has not been fully demonstrated.

Fourth. The question is often asked, do you have to spray, and have you any

pests, and is there danger of failure? Will say we do not have to prune and spray except to cut away the lower limbs that tend downward to allow getting up to the trees to cultivate, and possibly will have to spray for moss. But we have the blight, and do not think there has been any remedy discovered. They have it, we understand, wherever walnuts are grown. Some seasons it proves worse than others. As the wet weather seems to be unfavorable, and the trees we grow come out so late in the spring, and we can count on almost perpetual dry weather until harvest, and as the blight puts its work in early, we do not think we will fare so badly here as in some other places, as far as failure of crop. As far as we have been able to learn, those in Oregon and Washington who have trees in bearing, have walnuts every year, and we think we are surer of crop than almost any other product we undertake to grow.

The walnut is a hardy tree, the crop easily harvested, and we have a ready market and at a better price than nuts grown elsewhere, on account of quality. We find no bitter or strong nuts. Some question whether or not there may be overproduction. We believe we grow only about 33 1/3 per cent of the nuts consumed in this country, and when we consider the rapidly growing demand even at the present high prices, there is not much danger of overproduction.

We feel confident that walnut culture in the Northwest will prove profitable and will become one of our leading industries.

THOMAS PRINCE.
Dundee, Oregon.

HOW CHERRIES GROW AT LEBANON, OREGON

HOOD RIVER, Salem and other places are not the only ones where cherries grow in profusion. Superintendent E. K. Barnes, of the Lebanon High School, cut from a Royal Ann cherry tree that is growing in his garden a twig that had 171 cherries on a space of twelve inches. On another

branch of one inch in length there were thirty cherries.

This same garden of the professor's produced mammoth blackberries of such a size that it was an easy matter to find eight of them measuring fifteen inches and in once case a single berry measured two inches.

While Hood River country boasts of her apple orchards yielding \$500 to \$1000 per acre, yet the yield from a small plot of ground set to the Lawton blackberry at the same rate would make the income from one acre—in this same garden of the professor's—the modest sum of \$1120.



ATTRACTIVE TROUT STREAM, WILLAMETTE VALLEY

No wonder the High School debating team from Lebanon won the championship of the state of Oregon!

Lebanon, Oregon. E. K. BARNES.



Almost the whole world knows of Hood River as a place that produces the best fruits, and all of Hood River Valley should know, and could know, that there is one place in Hood River, under the firm name of R. B. Bragg & Co., that the people can depend on getting the most reliable dry goods, clothing, shoes and groceries at the most reasonable prices that are possible; try it.



WINDOW DISPLAY OF APPLES IN PORTLAND, DECEMBER, 1907, MADE BY THE APPLE GROWERS OF THE WILLAMETTE VALLEY
Room for this display was given in the window of Olds, Wortman & King

NATIONAL APPLE SHOW AT SPOKANE, WASHINGTON

PARIS awarded a fruit of pure Hesperian gold to Venus, as the fairest of the Olympian divinities gathered at the bridal of Peleus and Thetis, and this so inflamed the jealousies of Juno and Minerva that they did not cease their machinations until Troy was destroyed.

The National Apple Show Association of Spokane, of which Harry J. Neely is secretary and manager, purposes awarding an apple, molded of virgin gold, dug out of the hills in the Spokane country, to the grower showing the most beautiful specimen of fruit at its

well as buyers from the Orient and the Islands and other countries.

National attention is already directed to the festival next December, and the inquiries from Eastern, Middle Western, Southern and Pacific Coast states, and from the various provinces in the Dominion of Canada, so far received by Mr. Neely, indicate that already preparations are being made by growers in numerous districts to compete in practically every class, ranging from the best single apple to carload lots.

"The prize list, yet in the preliminary stage of its preparation, will be the

largest and most comprehensive to be offered anywhere, in this or any other country in the world," Mr. Neely said, "and in this we are receiving substantial encouragement from the business men of Spokane, as well as the owners of land in various fruit districts.

"We expect to offer as prizes in some of the classes several five and ten-acre tracts, but the association is not yet ready

to make the formal announcement. However, it may be said at this time that not less than ten tracts and at least \$25,000 will be offered in premiums. The chief interest at this time is centered in the golden apple to be awarded to the grower and exhibitor of the most beautiful apple shown during the exposition.

"The National Apple Show Association has for its primary object the creating and supplying of an increased demand for the apple, and in declaring that the value of the premiums at the Spokane exhibition total at \$25,000, it says among other things in its preliminary announcement of the purpose of the exhibition:

"By the offering of large and unusual premiums to bring about a

healthy rivalry, by comparison of exhibits, between the orchardists in all localities, thereby stimulating the grower to increasing activity and efforts to produce each year a higher standard of fruit, packing, marketing and price.

"By bringing at one time before the apple growers of the world a representative collective display of the king of fruits from all apple growing districts, bringing the product of old and new orchards to his attention, and thereby benefitting in a financial way, both the orchardist and the buyer.

"By placing before the consumer the many varieties of scientifically grown and packed standard apples, insuring to him quality and quantity, and thus make a greater demand for the product of the orchard and a market for the ever increasing supply in all localities as new trees planted each year reach the age of commercial value."

The officers of the association are: President, Louis W. Hill, St. Paul; first vice-president, F. L. Williams; second vice-president, E. F. Cartier van Dissel; treasurer, W. D. Vincent; secretary and manager, H. J. Neely, Spokane; trustees, F. W. Gilbert, St. Paul; W. F. McMurray, Portland; D. C. Corbin, J. P. Graves, Henry M. Richards, N. W. Durham, J. P. McGoldrick, F. L. Daggett, David Brown, L. MacLean, G. C. Corbaley, F. E. Goodall, Philip T. Becher, Spokane, and the foregoing named executive officers.

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ALBANY, Oregon, reports over five hundred acres set to walnuts in Linn County. This industry is rapidly growing throughout the state of Oregon, particularly the Willamette Valley. The walnuts generally bear in from four to six years. For some reason which we are unable to express, walnut trees come into bearing very early in the Willamette Valley. Oregon walnuts are generally found to be of superior quality to the California walnut or the French nut. The walnut tree grows to be very large, and trees should be planted from fifty to sixty feet apart. It is very surprising to see walnut planters set trees twenty feet apart, when every one knows that the walnut grows to be a great, big tree. Any man living in Oregon for any length of time would very soon see the folly of setting even apple trees only twenty feet apart.



MEADOWBROOK FARM ORCHARD, WILLAMETTE VALLEY

first annual exhibition in Spokane, December 7 to 12; but instead of bringing about discord, as it is recorded followed the judgment of Paris in disposing of Eris' gift, it is designed that the award of the twentieth century shall be the means of placing the apple in its rightful classification—as the emperor of all fruits.

Modern history contains no reference to a similar award, and for this reason, in addition to the intrinsic value of the trophy, it is believed the announcement of a prize of a golden apple will be the means of bringing to the Spokane show the best specimens of the skill of the foremost growers, not only in America, but from various parts of Europe, as



VIEW OF M. O. LOWNSDALE'S ORCHARD, LAFAYETTE, OREGON

THE FRUIT GROWING INDUSTRY OF THE WEST SIDE

BY W. K. NEWELL

I HAVE been asked to say a few words about that section of Oregon known as the "West Side." Comparisons are odious. It ill becomes any citizen of our beloved Oregon to laud any one section of our state to the disparagement of any other. Knowing as well as I do the magnificent opportunities of other localities, I shall attempt no comparisons, but just let any one ride over the three counties of Washington, Yamhill and Polk, which constitute the district commonly designated the "West Side," and familiarize himself with their resources, charms and advantages, then if he be not satisfied we are willing to let him depart, for he will never be satisfied this side the pearly

largest bearing apple orchard in the state and the largest walnut groves in the Northwest. Undoubtedly the center of the walnut industry in the Northwest will be in this district. Here is found the soil and climatic conditions that just suit certain varieties of the English walnut, and the greatest interest is in the culture of the nut.

The splendid 120-acre grove of Mr. Thomas Prince, at Dundee, was the pioneer planting on a commercial scale, followed very shortly by forty acres in the Oak Hill Farm at North Yamhill. The success of these groves induced many others to enter the field, and now several thousand acres have been planted, among the big plantings being

orchards, and there are many fine orchards scattered all over the district. The hill orchards are regular bearers and yield good returns. There will be no mistake made by the man who plants Italian prunes on the well-drained hill sides of the "West Side" district, and it is safe to predict a very great increase in the output of this fine fruit.

And cherries the finest in the world grow on these same hill sides. All varieties of commercial value are grown extensively, and the planting of young trees in the past two years has been immense. Last year big money was made in cherry orchards, but this year, owing largely to the financial crisis, the market demand was poor and prices low.

The cannerymen were unable to buy and pack as extensively as usual and considerable quantities were dried, which will find a market at a fairly remunerative price. While not so certain a crop as many others, the cherry yields such large profits when conditions are right that the growers can afford an occasional off year.

One of the best lines of fruit growing to follow here is the raising of small fruits for the local markets and for the cannery. With the rapid growth of Portland and other cities, there is a demand for small fruits, berries, etc. Many small fruits not usually planted in commercial orchards, such as crab apples, quinces, early summer apples and pears, can be planted and handled profitably. Five or ten acres when planted in this way, to give a succession of fruits for all the season, will keep a large family busy and result in a snug bank account. With the splendid transportation facilities afforded by the river

and the railroad lines now operating or in course of construction, there are thousands of locations where small fruits of all kinds can be placed on the city markets very readily and in fine condition.

The hills near Forest Grove have long been famous for the splendid quality of grapes produced. Though only about 100 acres in extent, these vineyards have yielded so bountifully that their product has been shipped all over the Northwest for many years. Both the European and American varieties are grown, the principal varieties of the former being the Sweetwater, Black Hamburg, Rose of Peru, Red Mountain, etc., and of the latter the Concord, Diamond, Niagara, Worden and Delaware. Some very fine wines are produced by the growers.

Time and space forbid a more extended description of this favored land, it must be seen to be appreciated, and we heartily invite the prospective purchaser to come among us and see for himself.



SIXTEEN-YEAR-OLD PEACH ORCHARD, MOUNTAIN VIEW FARM, OWNED BY W. H. EAGAN, NEAR SALEM

gates. Lying, as this section does, on the western slope of the Coast Mountains and between them and the Willamette River, bountifully timbered and watered, with soil unsurpassed, and at the very door of the metropolis of the Pacific Northwest, what more could one desire?

The careful observer will at once notice the splendid quality of the soil upon the hills as well as that in the valleys. While in many fruit growing localities the only available land is that of the valleys, here the best fruit land is that of the hills. Covered as these hills have always been with a splendid growth of timber, there has been no chance for erosion, and the soil has been built up by continual deposits of decaying foliage. This point is of great significance and should not be overlooked. There is very little waste land in this section.

While perhaps not so famous as some other sections as a fruit growing locality, still this section boasts the largest prune orchard in the world, the

those of John B. Stump, at Monmouth, 100 acres; Ferd Groner, Scholls, eighty acres; J. F. Forbis, Dilley, fifty acres, and Thomas Withycombe and Dr. Weatherbee, at Gaston, fifty acres; William Galloway, E. C. Apperson and many others at McMinnville. The Walnut Plantation Company, at Gaston, are preparing ground to plant 1000 acres in the next two years. And this is but the beginning of what will be a great industry. While taking longer to secure returns than from any kind of fruit, when once established they will last for generations, and the expense of maintenance will be light, while the profits should be moderately large and safe. The nuts so far produced in Oregon have been of very fine quality and have sold at several cents per pound above the California nuts.

Nowhere does the prune succeed better than on the hills of this locality. At Newberg, Springbrook, Dundee, Dallas and Forest Grove the hills for miles around are covered with prune

IMPORTANT MEETINGS TO BE HELD IN PORTLAND

NORTHWEST FRUIT GROWERS' ASSOCIATION AND STATE HORTICULTURAL SOCIETY TO MEET AT PORTLAND, DECEMBER 1 TO 5, 1908

THE Oregon State Horticultural Society will meet in Portland, Oregon, December 1, in annual session. It will likewise introduce the sixteenth annual convention of the Northwest Fruit Growers' Association, which organization will deliberate during the three following days.

This "Horticultural Week" in Portland will be the biggest mid-winter fruit growers', packers' and shippers' meeting ever held on the Coast. Representative horticulturists from all parts of the Pacific Northwest will be in attendance, while eminent teachers, experimenters and authors from various sections of the continent will favor the convention with addresses, lectures and special demonstrations.

An especially attractive feature of the occasion will be the very large display of deciduous fruits, including pears, apples, prunes and nuts, in both commercial pack and plate display. The Oregon State Horticultural Society will offer an exceptionally fine selection of cups for best displays, commercial pack. This, in itself, will bring out a lively contest and many splendid exhibits, besides, there will be several most excellent non-competitive displays from the leading orchard districts.

There are a dozen first-class fruit growing sections in the Northwest, each one of which is just as good, or better, than the others. At this meeting these sections promise to outdo all former displays of winter fruits, thus assuring a rare treat to our visitors from the East and over across the seas, for this is really an international event at which consumer, buyer and producer will meet for conference, discussion and good fellowship.

This announcement is for the purpose primarily of enlisting your support in behalf of the display. It is time you were thinking about what part you will take in this feature of the convention. Do something; just as much as you can. Exhibit standards in commercial packs or new or little known varieties on plates or otherwise, but for the good name of your district, do something, the best you may, to keep the community credit at the top.

In a few weeks the horticultural and farm papers will have a full list of awards, together with the conditions of competition. Do not lose sight of the fact that this is one of the very best places at which you can do good work.

Thousands will visit the fruit exhibit and will gather from it a far better opinion of your products than it is possible to obtain from any amount of printed matter.

As an educational event there has never been any occasion in the Northwest to approach it in comprehensiveness. The association had a grand time at Vancouver last year, the best up to that date. This year the association is a year older and in consequence must be bigger, better and entitled to greater respect. This is the most comprehensive organization of its kind on the continent and Portland is going to entertain the visiting delegates in a style befitting

of fruit this year it has harvested for a number of years. He reports over 1500 orchards in Washington County, which includes big and little orchards and family orchards, of course.

J. A. Perry, manager of the Fruit Growers' Association in Southern Oregon, reports a fine crop of apricots shipped from around Medford, and also states pears will be very fine this year, but the crop will not be a large one.

The August number of "Better Fruit," published at Hood River, thousands of copies of which circulate throughout the East, contains a very comprehensive illustrated write-up of Lane County



STRAWBERRY FIELD IN THE WILLAMETTE VALLEY, OREGON

their rank and their glorious occupation. You will miss a great big enthusiastic educational meeting if you are not in Portland, Oregon, December 1-5, 1908.

E. R. LAKE, Secretary.
Corvallis, Oregon.

ARTICLES OF INTEREST

Professor A. Melander, of Pullman, wants growers to report on the new apple boring insect, which makes its appearance about picking time, is about one-half inch long, of green color and feeds on the flesh of the apple.

H. S. Simonds, of Wenatchee, reports that where peach orchards are cultivated continually, as they have been in some cases for the last six years, the peaches are not as large as where alfalfa or clover is grown between the trees.

W. R. Harris, fruit inspector of Forest Grove, Oregon, has done excellent work in Washington County, and reports that county will turn out the cleanest crop

as a cherry center. In fact, the issue is a cherry number and a splendid thing for the state, Eugene and Lane County coming in for a goodly share.—Eugene Register.

Frank Power has sold out his interest in the Oregon Nursery. Mr. Power is well known and favorably spoken of by all those who know him, and the fruit people in general will be glad to see him in business again, which is understood to be his intentions.

The Hood River apple crop will be somewhat larger than last year on account of new acreage coming into bearing. It is estimated that Hood River will produce about three hundred cars this year. Southern Oregon's estimates for apple crop vary all the way from two to three hundred cars. Wenatchee estimates vary from three hundred carloads up. Yakima Valley has claimed that it will have one thousand carloads of apples.

NEWS ABOUT CANNERIES OF THE NORTHWEST

Emmett, Idaho, is planning to erect a cannery for next season's crop.

Cottage Grove Fruit Company, at Cottage Grove, Oregon, has a fine plant for drying fruit and expects to have a successful season.

North Yamhill, Oregon, is agitating the subject of a cannery. The growers are sorely in need of a cannery to take care of their surplus fruit.

Puyallup, Washington, as usual, has been running its cannery full blast. The Puyallup Valley is the greatest raspberry and blackberry section in the Northwest. The cannery absorbs the

to can some of the vegetables, such as pumpkins and squash, as the district around Grants Pass grows vegetables very successfully.

Marysville, Washington, is on the way to establish a cannery in that city in the near future. The fruit growers have succeeded in interesting local capital to sufficient extent and feel sure they can go ahead and put in a plant for next year.

The importance of the canneries is made evident this year. When the canneries fail to pay good prices and absorb the green fruit the market is crowded, low prices prevailing all around. It is

cherries, peaches, plums, etc., berries and vegetables are grown. Any one desiring to take advantage of this opportunity can obtain further particulars by addressing G. W. Huffman, cashier of the Woodburn Farmers' Bank, Woodburn, Oregon.

The Weber-Bussell Cannery Company is operating its canneries at Yakima, Puyallup and Sumner, in Washington, and at Freewater, Oregon. Mr. Weber is secretary and selling agent for the Washington canneries, which is made up of about twenty-five companies. The business has been seriously affected by the financial disturbances which occurred last fall, and it has been a hard year to

operate successfully. The grower expects cash for his fruit and the canner has to pay cash in advance for his sugar and cans, and the help must be paid every Saturday night; in fact, the cannery can neither get sugar or cans from the depot until he honors the sight draft attached to the bill of lading at the bank. Very few canneries have capital to any extent outside of their plant, consequently they have to go to the bank to finance their business—that is, to borrow sufficient money to pay for fruit, sugar, cans and help. They require a long time accommodation, for the reason there is little demand for canned fruit until winter. The jobbers do not lay in a stock until late in the fall. On account of the diffi-



HOOD RIVER EXHIBIT BOOTH AT O. R. & N. DEPOT, HOOD RIVER, OREGON, RECENTLY ERECTED, WHERE FINE FRUIT IS DISPLAYED THE YEAR AROUND. IN CHARGE OF J. A. WILSON.

surplus fruit that is too ripe for shipping, and, we understand, generally pays fair prices. This cannery frequently handles one thousand or more crates per day.

At Yakima, Washington, Milo W. Russell is engaged in collecting fancy specimens of fruit, which he will process in jars for display at the Alaska-Yukon Exposition.

The Dalles Fruit Cannery is using a very handsome label, called the Fort Dalles brand. On this is pictured the scene of the officers' quarters of the fort at The Dalles, built in 1856.

The Nooksack Fruit Cannery, at Schome Dock, Washington, has been putting up a big lot of strawberries and cherries. The manager, Mr. Broder, is proud of the brand and anticipates a ready market for the entire output.

Grants Pass Cannery, located at Grants Pass, Oregon, has finished canning cherries and is putting up a big output of blackberries and peaches. This cannery is engaged quite extensively in the business and will put up a big lot of Bartlett pears. It is their intention also

hoped that next year financial matters will be settled so that they will be able to operate. If they do the prices will be better and the green fruit market will be better, and the fruit grower, generally speaking, will profit all around by better prices.

Winlock Fruit Growers' Association is interesting itself in a cannery, and sufficient encouragement has been given that the trustees have decided to erect a cannery at once, sufficient for present needs. This association has about sixty members.

Payette, Idaho, is erecting a big dryer, under the management of F. E. Price, manager of the Payette Fruit Packing Company. Payette seems to think there is big money in dried fruit, and it is the intention of the dryer to dry apples, prunes and other fruits.

Woodburn, Oregon, has a first-class cannery equipped up to date. The shareholders desire to lease the cannery and are looking for a good man. Woodburn is in the heart of the Willamette Valley, where immense quantities of fruits,

culty in getting money and the uncertainty of financial conditions existing as a result of the recent flurry and the presidential year, canneries have been cramped for capital, consequently they bought very sparingly and generally at very low prices, which were usually unsatisfactory to growers. On account of the limited amount offered, fruit growers crowded the markets with fresh fruit.

La Center, Washington, has organized a cannery with \$6000 capital stock supplied, and elected the following officers: E. F. Anderson, president; Robert Gahsel, vice-president; T. B. Larsen, secretary; Harry Neis, treasurer. This plant will be equipped up to date.

The Montesano Fruit Growers' Association is running its cannery with a force of about twenty employees. The output will be principally blackberries and some vegetables. The people in this district are realizing the money to be made in fruit and are clearing the logged-off lumber land for fruit and vegetables.

STANDARD OF FRUIT GRADES FOR YAKIMA VALLEY

FOR the first time in the history of fruit growing in the Yakima Valley a standard of fruit grades has been established. These standards, together with instructions to packers are set forth in a booklet issued by the recently organized Yakima Valley Fruit Shippers' Association, the Yakima County Horticultural Union, and the Zillah Fruit Growers' Association. These standards are absolute and the fruit grower disposing of his produce through any of the North Yakima commission houses will do well to live up to them.

Lack of uniformity of pack has been the only weakness of the Yakima crop, a weakness which packers and shippers of Hood River have not been slow to comment on. North Yakima shippers have felt the justness of the criticism and the adoption of these rules by practically all the shippers of the valley will result, it is thought certain, in fruit as admirably packed as it is noted for size and flavor.

Handling Fruit in Picking

Great stress is laid upon the handling of the fruit in picking. Every precaution should be taken against bruising. Peaches and all tender fruit should be packed directly from the picking basket. Apples should be sorted and graded before being placed on the packing tables. All wagons conveying fruits from orchard to packing houses and shipping stations must have springs and tarpaulins or other covering must be placed over the load to keep out heat, dust and rain.

For fancy peaches the requirements are that they shall be free from worms, scale, disease, blemishes, split pits and picking bruises, sound, firm, smooth, true to name and well colored according to variety. For the choice grade, the peaches shall be in as perfect condition as the fancy grade except for color.

The peaches shall be wrapped and packed suitable for long distance shipping. The diagonal pack with solid sides is required. The number of peaches, variety and grade should be stamped on the end of each box by the grower. Peaches not firm or solid, owing to ripeness, should be carefully sorted and packed separately, such boxes to be marked with an "X" and the variety, for local markets and express shipment. No Elberta peaches of greater count than 80 to the box will be received and no variety with more than 90 to the box shall be accepted except Alexanders and Hale's Early, for nearby express shipments.

Prunes, plums and apricots shall be packed in four-basket crates, three tiers to each basket. No smaller than 6x6 pack will be accepted. Baskets must not weigh less than 27 pounds gross.

Fancy Grade Pears

All pears of fancy grade must be no smaller than 2½ inches in diameter with the exception of the Winter Nellis, which may be 1¾ inches. In the choice grade slightly misshapen pears, or those having limb rub or like defects, may be included.

For the extra fancy export apples, fruit must be no smaller than 2½ inches in diameter, sound and perfect, and the red varieties must be red all over, of good shape and form, characteristic of the variety. In the fancy grade varieties, with the exception of the Winesap and the Missouri Pippins, shall be

no smaller than 4½ tier and no box shall contain more than 165 apples. Winesaps, Missouri Pippins, Geniton and Jonathans will be accepted as small as 5 tier if red all over.

True Color of Apples

Each specimen of Winesaps, Jonathan, Arkansas Black, Gano, Lawyer or Delaware Red must represent 75 per cent true color, while 50 per cent red will be accepted for Ben Davis, Rome Beauty,

Baldwin, Wagner and other red varieties.

Grapes should be packed in eight-pound baskets, laid on slant, stems downward.

The instructions are signed for their respective firms by Bruce Wees, J. M. Perry, H. M. Gilbert, F. E. Thompson, Lloyd Garretson, E. E. Samson, M. N. Richards, John Gibson, C. Starcher, A. L. Thomsen, S. W. C. Hand, J. D. McLaughlin and J. W. Hayes.

BIG PROFITS TO BE MADE IN GROWING PEARS

H. C. MICHAEL, OF GIBSON FRUIT CO., CHICAGO, BELIEVES OPPORTUNITY OVERLOOKED

MR. H. C. MICHAEL, now in Wenatchee, representing the Gibson Fruit Company, of Chicago, in an interview with a reporter for The Republic, gives it as his opinion that

tree. It is, of course, impossible to determine the price the fruit will bring, but it may conservatively be placed, based on an average for say the past five years, at from one to two dollars



THE MAYNARD PLUM, INTRODUCED BY THE OREGON NURSERY COMPANY, SALEM, OREGON. PLANTED QUITE EXTENSIVELY THROUGHOUT THE WILLAMETTE VALLEY

the growing of pears, cherries and apricots on a very much larger scale than at present would yield very gratifying returns, and in view of the astonishing revenue received from pear orchards in other fruit sections of Washington, Mr. Michael's views are worthy of serious thought on the part of Wenatchee fruit growers. The acreage already planted to apples, as is well known, is of great extent, and constantly increasing, while the acreage now set to pears is extremely small. It is also true that in many sections where pears have been raised in the past the orchards are gradually dying out by reason of blight and other affections, which removes any fear of overproduction. A small amount of fruit may be expected the third year after planting, and five-year-old trees now in bearing in the valley are producing an average of six boxes to the

per box, with a strong probability of a higher average in the future than in the past. By reason of the earlier maturing of the fruit, the pear crop should be well out of the way before the fall apple picking is at its height. As to the most desirable varieties, Mr. Michael suggests Bartlett, Comice, De Anjou and Winter Nellis in the order named. In view of the foregoing it would seem that in the setting out of the many new orchards which will take place in the near future the planting of a portion of the acreage to pears would be a judicious move. Mr. Michael makes the further suggestion that more cherries than are at present grown in this section would be profitable, his choice as to varieties being Royal Ann, Bing and Lambert, and is of the same opinion concerning apricots and believes the Moorpark to be the one best variety.

GENERAL FRUIT NOTES OF NORTHWEST SECTIONS

Mosier, Oregon, expects to ship about 30,000 boxes of apples this year.

Pullman, Washington, expects to ship about forty carloads of apples this year.

The Pnyallup and Sumner Growers' Association has a membership of over 500.

The districts in British Columbia are generally reporting good crops for this season.

The Naches Valley fruit growers are very enthusiastic over forming an association.

Payette Valley Association has been reorganized with A. E. Wood as president.

The La Grande fruit growers estimate the apple crop of that valley at about 250 carloads.

The Mosier Fruit Growers' Association shipped three cars of peach plums this season.

The Yakima Horticultural Union will employ 25 packers during the pear shipping season.

M. G. Pohl, inspector for Coos County, has finished his work of inspecting 96,960 fruit trees.

Seattle commission houses report good sale for Wenatchee, Crawford, Alberta and Foster peaches.

George Rae, of Rae & Hatfield, New York, states that there will be a fair market for Oregon fruit this year.

The Lane County Fruit Growers' Association shipped a number of Bing, Lambert and Black Republican cherries.

C. S. Dow, inspector for Clatsop, is doing excellent work in the county by the sea, where considerable fruit is grown.

Around Ellensburg, Washington, the orchards are in good condition and growers report they will ship about 30,000 boxes of fruit this year.

The state of Washington is planning to send six carloads of fruit to the National Irrigation Congress, to be held at Albuquerque, New Mexico. This

matter has been agitated by H. P. James, Yakima, and Charles B. Reed, of Malaga, Washington.

W. P. Stark, president of the Missouri State Horticultural Board and president of the Stark Brothers' Nursery, Louisiana, Missouri, accompanied by James M. Irvine, editor of the "Fruit Grower," St. Joseph, Missouri, spent several days in Hood River Valley, making their headquarters at the office of "Better Fruit."

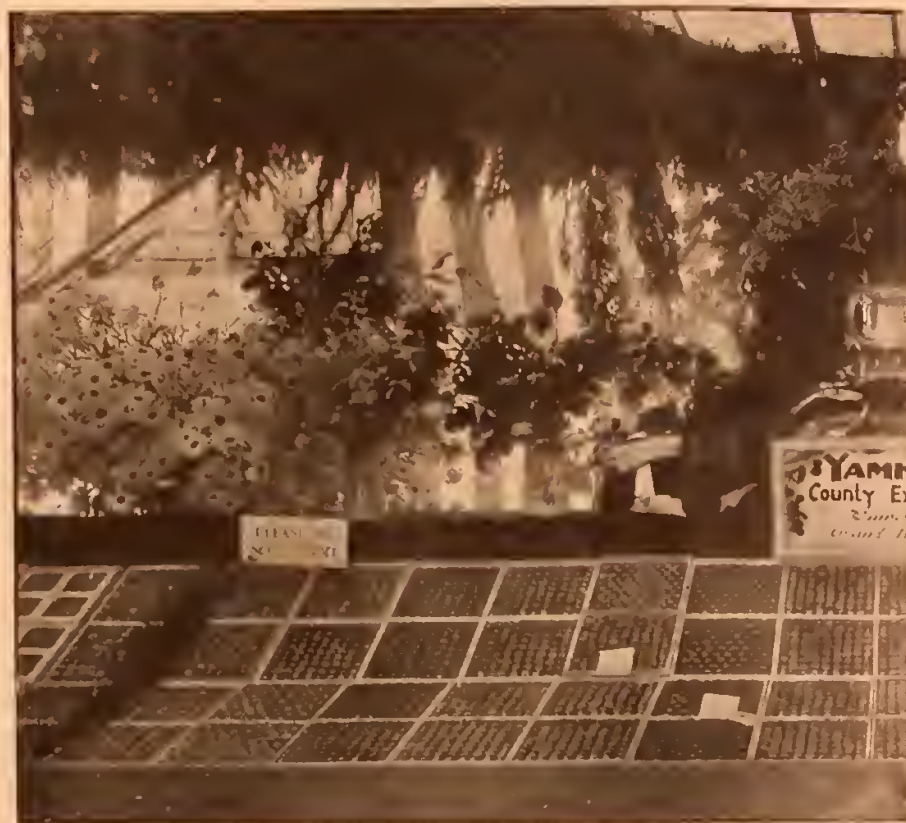
M. O. Lownsdale, inspector for Yamhill, who has a large orchard at Lafayette, reported the largest in the state, has put the ban on bad apples and wormy fruit. Mr. Lownsdale is a man of strength and character and he knows his business. It is evidently his intention to make growers respect the laws.

Mr. Day, of Sgoebel & Day, after having completed his trip through the West, writes back that Salem will ship about ten cars of Spitzenbergs, Lafayette about ten cars, Hood River seventy, Wenatchee fifteen cars, Yakima thirty; in all about 182 cars. Wenatchee 150 cars of Winesaps; Colorado 600 cars of apples. It is our opinion that this estimate is from fifty to one hundred per cent too high.

The Yakima Commercial Club is supplying very attractive circulars advertising Yakima Valley. One of these circulars will be placed in each box of fruit and will read as follows: "This

fruit was grown in the Yakima Valley, Washington, celebrated for apples, peaches, pears, plums, apricots, cherries, prunes and berries."

Manager Lundhall, of the Western Orchard Company, Medford, says that his company have planted nearly one



YAMHILL COUNTY EXHIBIT WINNING THE GRAND PRIZE AT THE SALEM CHERRY FAIR, 1908

thousand acres during the last year. It is the intention of this company to place small tracts on the market to be cared for until they come into bearing.

In an address made at Albany by F. T. Morton of Grand Junction, Colorado, who is a horticulturist of thirty-five years' experience, having grown fruit in Colorado, Utah and Idaho, it is reported he said that Oregon was the best fruit



APPLE EXHIBIT AT THE INTERNATIONAL STATE FAIR, SPOKANE, 1907

growing place in the world; furthermore, he said that he expected to locate in the Willamette Valley or the Rogue River Valley.

The Hood River spray manufacturers have entered into an agreement with the Oregon Spray and Gas Company, and are erecting a plant in Hood River for the purpose of manufacturing lime and

Association of Milton, is reported as having made an extended trip through the Northwest States and Canada to open up a market for fruit grown in this district.

The Dalles Business Men's Association has done more in less time than any other commercial organization that we know of in the way of making known the possibilities of The Dalles for fruit growing. The Dalles cannot be excelled for peaches, cherries, grapes and many other fruits. The people engaged in fruit growing at The Dalles have long known this. The Business Men's Association is now letting the rest of the world know it.

Mr. S. A. Herring, superintendent for Oregon for the Pacific Fruit Express Company, is jumping around all over the country as usual and is doing his level best to make arrangements so that all fruit sections will have all the cars they need, and as fast as they need them. Mr. Herring, who is generally known as Sam, is very accommodating and extremely popular among all fruit shippers.

sulphur. It was reported that the Rex Company, of Omaha, will establish a plant for manufacturing lime and sulphur at The Dalles, Oregon.

The Milton fruit growers, of Milton, Oregon, are in fine working shape, with a splendid large warehouse, with a large platform for unloading. J. M. Stone, manager of the Fruit Growers'

Professor C. C. Cates, of the Oregon Agricultural College, is doing observation work in the Grand Ronde Valley, Oregon.

Senator Hodson has offered a trophy for the best commercial exhibit of three varieties of apples to be shown at the apple fair to be held at McMinnville in November. "Better Fruit" gave a hand-

some cup for the best display of packed cherries at Salem. It was won by J. R. Shepard.

The Oregon Nursery Company's farm, near Hillsboro, is being rapidly planted to nursery stock. Already they have in about 280 acres.

The Pacific Coast Nursery Association held an enthusiastic meeting at North Yakima in July. Over fifty nurserymen were present.

F. A. Huntley, State Commissioner of Horticulture for the state of Washington, is very rigid in his inspection and is doing an excellent work for that state.

Richey & Gilbert, big fruit buyers at Toppenish, have informed the growers of that district that unless fruit is properly packed and graded this year it will be rejected.

J. M. Brown, inspector in Yakima Valley, reports a fine crop of fruit in his district and gives out information that no wormy apples will be allowed to be shipped out.

R. H. Weber, of The Dalles, reports a large crop of fine peaches, plums, pears, peach plums and apricots shipped from The Dalles. He also reports plums yielding \$500 per acre.

J. O. Shadbolt, the owner of a thirty-seven-acre bearing orchard in Parker Bottom section of the Yakima Valley, has been offered and refused \$75,000. He values his place at \$100,000.

C. H. Lewis, of Medford, Oregon, is reported as having sold his orchard for \$160,000. This shows very conclusively what capital thinks of the future of the fruit industry in this country.

Nob Hill orchards in bearing in Yakima are selling at \$2000 per acre. Wenatchee reports sale through the newspapers of ten acres in bearing orchard at \$33,000. C. Hunt Lewis, Medford, Oregon, is reported as having sold his place for \$160,000.

Nuts

Peanuts are grown very successfully by W. W. Wolfe near Echo, Oregon.

Dr. Coe, near Echo, Oregon, is doing some experimenting with walnuts grown



VALLEY FORD DISTRICT EXHIBIT AT THE INTERSTATE FAIR, SPOKANE

in his district. After investigating the walnut culture, he became satisfied that walnuts will thrive in his district.

Chestnuts are being tried by J. M. Root near Medford. His intention is to plant a chestnut hedge around his forty acres.

Ferd Groner has over fifty acres in walnuts in Washington County, Oregon. We understand his orchard is grafted on Native Black California stock with scions from the best strains of Franquette and Mayette.

Walnut trees begin to bear the fourth year and give best results after the tenth year. From this time on it is claimed that walnuts produce better profits per acre than any other agricultural product.

The Oregon Walnut Company has purchased 155 acres near North Yamhill, Oregon, for which they paid \$31,000. This company has contracted with Thomas Prince, of Dundee, Oregon, to do the setting this fall.

The Walnut Plantation Company has purchased 960 acres near Gaston, in Washington County, Oregon, and intend to plant the greater part of the tract to walnuts. Among the stockholders are: A. Crofton, J. R. Rogers, John H. Hall, S. C. Spencer, H. Beckwith, F. S. Wilson and F. E. Manchester.

Plums

Wenatchee, Washington, reports a big plum which is grown by D. W. Jones, weighing six and three-quarter ounces. This would make the plum about the size of an apple. Many of our Eastern friends have taken cherries grown in the Northwest for plums, and we are now growing plums so that our Eastern friends will next be thinking our plums are apples.

Peaches

Milton, Oregon, reports a fine crop of peaches this fall.

The Yakima Valley will market a quantity of peaches this year—quality superb.

Kennewick, Washington, reports a fine crop of peaches on three-year-old trees this season.

At Yakima it is reported that the Bussell Cannery Company has contracted for another crop of peaches from several orchards. Either Crawfords or Albertas are extensively used. These are the two leading varieties.

Lewiston has long been celebrated for exceptionally fine peaches. The soil and climate seem specially adapted. Lewiston advices report that the crop of peaches in the Lewiston-Clarkston district will be about 600 cars.

Peaches, generally speaking, will bring a fair price this year, and the peach industry is a big industry, particularly in the Wenatchee Valley, the Yakima Val-

ley, the Lewiston-Clarkston district, around The Dalles, and in Southern Oregon.

William Vanest, manager of the Clarkston Packing Company, Clarkston, Washington, has made an extended Eastern trip for the purpose of looking up the markets. This district expects to market a great deal of green fruit throughout North Dakota, Montana and

When M. O. Lownsdale secured the cup for the best exhibit at the Salem Cherry Fair, the public sat up and took notice.

It was reported that E. Z. Carbine has shipped fourteen cars of cherries out of the Grand Ronde Valley.

Salem, Oregon, reports a new cherry, named the Kalich Giant, which is a cross between a Lambert and Bing. The cherry was originated by Mr. Kalich, at

Woodlawn, near Portland. It is larger than either the Bing or Lambert, and in color is a little lighter than a Bing but darker than a Lambert. It is reported to be very handsome.

Wenatchee, Washington, reports that Andrew Wood sold \$75 worth of cherries from one tree, eighteen years old.

Cherry growers at Salem are not satisfied with three cents per pound from the cannery, and are organizing, hoping by united action to secure better prices.

The Allen Cannery, at Eugene, has put up 250 tons of cherries this year. To do this 150 men were employed during the cherry season. Eugene is a fine cherry country.

S. P. Kimball, of Salem, has a cherry drier that will dry 3000 pounds of cherries per day. The cherries are pitted by machinery, and Mr. Kimball is of opinion that dried cherries will pay better than cannery prices.

Col. W. A. Miller, in charge of the Chamber of Commerce exhibit at

Portland, has processed some splendid samples of magnificent fruit. It was reported that he intends to process some of the Kalich Giant cherries.

The Blalock Fruit Company, of Walla Walla, Washington, is reported to have shipped seven cars of cherries this year, which is a record for this district in carloads.

Yakima, Washington, shipped the first straight carload of cherries this



CLASSES IN FLORAL CULTURE AND GARDENING, OREGON AGRICULTURAL COLLEGE, CORVALLIS

Canada. There is going to be a big demand for fresh and canned fruit in the prairie country of Western Canada.

Cherries

G. W. Willmore, of Lynden, picked 625 pounds of cherries from one tree.

Yamhill County, Oregon, sprung into prominence in the cherry world suddenly at the Salem Cherry Fair. Everybody in old Yamhill County knew they could grow cherries, but the public didn't.



STOCK PARADE, OREGON STATE FAIR, AT SALEM

year. The car was shipped by the North Yakima Horticultural Union to North Dakota. It was composed of sweet and sour cherries.

Grapes

A. H. Carson has probably done more for the grape industry than any other single individual in the southern part of Oregon.

Charles Dodge, of Yakima Valley, in an interview, says that grapes should never be trellised if you want a profitable crop. He says all branches and sprouts should be trimmed off up to about eighteen inches.

The manager of the Earl Fruit Company told the editor of "Better Fruit" that he paid to Bert Townsend, of Sacramento, California, a check for \$50,000 for his crop of Tokay grapes, grown on fifty acres.

J. A. Fleck, The Dalles, Oregon, speaks very enthusiastically about the success of growing grapes at The Dalles. The climate and soil around The Dalles seems particularly adapted to grape growing. Many sections in Oregon, Washington and Idaho are celebrated for growing fancy grapes. Grants Pass and Jacksonville, in Southern Oregon, have long been recognized as grape districts.

The Dalles, Oregon, produces as fine grapes as any that can be grown anywhere in the world. The same can be said of Lewiston-Clarkston district; and in the Yakima and Wenatchee Valleys it has been proved beyond a doubt that few industries are a better paying business. In the Willamette Valley, in Oregon, grapes have been grown successfully for a great many years. In this district, on the west side of the Willamette River, Concords are grown for market very extensively.

Berries

Juliaetta shipped about 3000 crates of strawberries.

Puyallup and Sumner Fruit Growers' Association will distribute about \$200,000 to growers for raspberries and blackberries shipped this year.

Hood River, Oregon, shipped about 60,000 crates of strawberries, amounting to about 100 carloads. Early growers were paid as high as \$3.37½ net average per crate.

Around Brooks, near Salem, something like 20,000 crates of loganberries were grown this year. This is the greatest loganberry district in the Northwest.

White strawberries have been exhibited in Tacoma by Id Neff. The white strawberry is a freak, but not quite so much of a freak as is the white blackberry.

At Puyallup and Sumner, Washington, the two associations are reported as having got good prices for raspberries this year.

By the end of August some thirty-eight cars of raspberries had been shipped.

W. H. Paulhamus, of Sumner, Washington, firmly believes, from experiments made this year, that by putting a sack of salt into the ice box at each end of the car, the temperature of the car can be kept much lower. In addition to putting a sack of salt into the ice box at ship-

covery of some value in connection with icing cars.

W. H. Paulhamus reports that during the early part of August the associations were shipping one car of blackberries to the East every day, and in addition to this shipment the cannery was putting up 2000 gallon cans daily. Mr. Paulhamus thinks that the future for the raspberry and blackberry of Puyallup is exceedingly promising, and that there is big money to be made in the business. Mr. Paulhamus thinks that the crop of berries shipped from that district has carried better this year than ordinarily, and attributes this condition to the fact that growers have not allowed their fruit to get too ripe before picking, and have used potash generally in nearly all the patches, which improves the firmness of the berry; and thirdly the service given by the railway was better than last year. It was fortunate for this district that raspberries and blackberries did not ripen during the time the Northern Pacific, Great Northern and Canadian Pacific were washed out.

Prunes and Plums

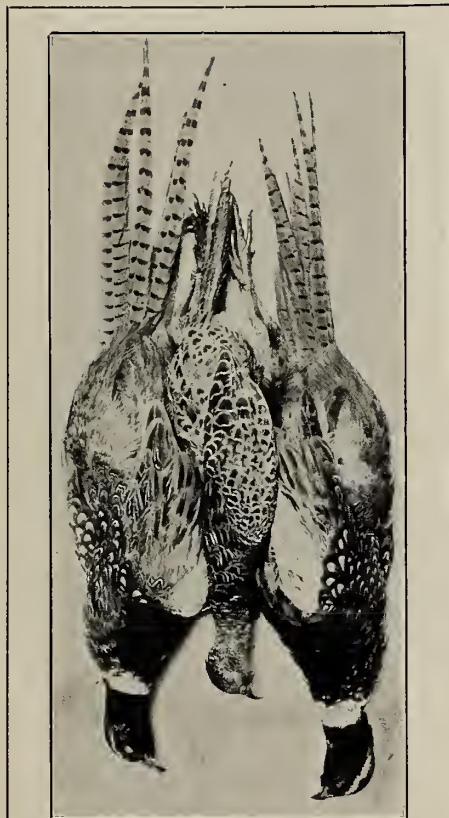
The Willamette Valley Prune Association has contracted for 200,000 pounds of Italian prunes to the London market, to be delivered in October and November. It looks good to see Oregon prunes going to London.

Alberton, Washington, fruit growers have contracted with the Alberton Evaporating Company to dry and process their prunes. A large drier is being built to take care of the crop.

Apricots

Medford, Oregon, is shipping apricots to Portland. The quantity grown there is not great, but considered very good quality.

Wenatchee reports apricots running in price from fifty to seventy-five cents per box. The crop was a heavy one and fine quality. The Wenatchee district makes a specialty of growing apricots in large quantities. Apricots are grown quite extensively for market in a commercial way in the Yakima Valley, Wenatchee district, around The Dalles, Oregon, and quite a few in Mosier, Oregon. California, until comparatively recently, has been a great apricot section, around Vacaville in particular, where the country is practically set to apricots.



MONGOLIAN PHEASANTS
The game bird of the Willamette Valley. Introduced into Oregon from the Orient by Judge Denny

ping station, arrangements were made with the railway company to put a sack of salt into each ice box every time the car was iced. It is generally known that salt added to ice aids very materially in cooling; we all have experienced this in making ice cream. It looks as though Mr. Paulhamus has made a dis-



LOGANBERRY FIELD OF C. M. LAFOLLETTE, WILLAMETTE VALLEY

WASHINGTON STATE COLLEGE AT PULLMAN

CONCERNING observations taken in the Pacific Northwest during a recent institute trip taken with the staff lecturer of the State College, Mr. Joseph E. Wing, the well-known writer and lecturer on agricultural problems, has lately written, in part:

"The fact is, to Washington was transplanted all the sterling cardinal virtues—energy, industry, thrift, courage, respect for law, for women, and the

Thornber, and others—are splendid young men, all in earnest, all doing good work. The farm is large, and well managed. There is splendid alfalfa on it, also good corn, grasses, wheats, barley, eighty sorts of apples, all kinds of fruits but oranges, and good animals well cared for. I mention these things for the benefit of the Washington farmer with sons and daughters; they can make no mistake in sending them to Pullman.



HYDRAULIC RAM PUT IN BY THE COLUMBIA STEEL COMPANY, PORTLAND, OREGON, AT SUNNYSIDE, WASHINGTON, YAKIMA VALLEY, ON THE PROPERTY OF MR. S. J. HARRISON

home. Churches are better attended in Washington than in the Middle States, and there are not one-tenth as many hoodlums, or parasites upon society.

"I spent something more than a week at the Washington State College. The longer I remained there the more I liked it, and at last I was reluctant to go away. It is an inspiring field of work. Some twelve hundred boys and girls are at Pullman, and it would be hard to find a finer lot. A lot of them are practically working their way through college. The saloons do not get many boy visitors and soon they must go altogether. The boys are very big and husky. They put up a tremendous game of football; their basketball game is splendid. They work hard, play hard and fair. They evidently come from good, moral homes. They are here for business. I have certainly never seen a more inspiring sight than the assembly at chapel in the morning. They fill every seat; they stand in ranks about the wall; they fill the adjacent lobbies. Now there is a new chapel building going up.

"The moral tone of this great school is good. The moral tone of the town is good. The teaching force is unusually strong; the men big, brainy, full of common sense and honesty. There is a singular air of directness about them; they say what they mean, and mean what they say, and go after results. President Bryan is a strong, courageous man, much loved by his associates, and worshiped by the students. He has gathered a great lot of assistants about him, and they work loyally. Professor Elliott, head of the agricultural department, is a strong man, full of energy and enthusiasm, an inspirer of the best things. His aids—Linklater, Severance,

It is a joy to have known these young people, some of whom never saw the eastern slope of the Rockies, but have grown up directly under the shadow of Western pines, or on sunny wheat ranches. They are simpler in manner, franker, more courageous than our Eastern lads and lassies. They are free from affectation. They are fuller of energy."

APPLE SHOW PRIZES

MAGAZINE TO AWARD CUP FOR BEST PACK PROMISING special prizes for the National Apple Show next December, the first two replies to a large number of letters were received yesterday by Secretary H. J. Neely. The letters were from "Better Fruit," a monthly magazine published at Hood River, Oregon, and the official organ of the Northwest Fruit Growers' Association, and from the John Deere Plow Company.

The prize offered by "Better Fruit" is a silver cup to be awarded to the best exhibit of packed apples consisting of not more than ten boxes and not less than five boxes. The packing of the apples will be the principal point considered in awarding the prize. By the John Deere Plow Company no definite article was mentioned. It was stated

that W. L. Taylor, the Spokane representative of the John Deere Company, would advise the Portland office as to the best article manufactured by that company which could be used as an award.—Spokesman-Review.

◆◆◆

Information Wanted

A party of six or eight, with their families, anticipate locating in the Pacific Northwest in the near future and engaging in fruit growing. Any information, published or otherwise, will be greatly appreciated. F. D. Barker, Concord, Mass.

◆◆◆

SUTTON BROS., Columbus, Ohio, make a specialty of fancy box apples, and will be in the market for several carloads. They also have splendid cold storage facilities and all consignments to them will have careful attention. Chicago references: C. H. Weaver & Co., G. M. H. Wagner & Sons, Wayne & Low; Columbus, Ohio, New First National Bank; Minneapolis, E. P. Stacy & Sons.

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The Dalles, Oregon

Fruit, Wheat and Stock Farms

For sale in Eastern Oregon and Washington. Acre tracts in any quantity desired, with or without trees planted, within one mile of city. We are sole agents for the sale of five and ten-acre tracts in Peachland Park, which we can sell you on easy installments and care for the orchard until it is in full bearing. This is a beautiful tract of land situate one mile west and overlooking the city. The soil is a rich, deep, sandy loam, and is set out on the most approved methods to peaches and cherries. Some of the trees are three years old. Write to us for full particulars.

EASTERNERS WANT UNIFORM NATIONAL PACK

FRUIT growers in the East are agitating the subject of uniform national packages for the different kinds of fruit in general, and apples in particular. There is undoubtedly some reason for such agitation. A great many packages are sold by measure or weight and the public is frequently imposed upon by short packages being placed on the market. The Eastern fruit men know what they want in the way of barrels, but they do not know what Western people want in the way of boxes. It is very assuming on their part to dictate to the West what size boxes we shall use. We should consider it unmitigated gall on our part to ask Congress to insist on Eastern apple growers using a certain size barrel without knowing any of their requirements. The West, which is known as the box district of America, after many years of experimenting, have adopted certain size boxes to meet our requirements to the best advantage. The same box will not suit every district.

In order to pack uniformly southern Oregon requires a certain size box, Hood river requires a different size to

preserve uniformity of pack, and Yakima and Wenatchee require a different size from either of these two districts mentioned. All of these boxes hold practically the same amount, there being but little difference in the cubical contents. Each of these districts will preserve the uniformity of size already adopted and will adhere to present sizes, for the reason that our present boxes are the result of many years' experiments. The trade wants uniformity of pack. If any one of these districts mentioned, or any other district for that matter, is compelled to deviate from the present size boxes they must give up endeavoring to pack uniformly. You might as well try to put square pegs in round holes as to compel any of these districts to discontinue their present boxes. The West will fight this national law on the grounds that the East has no right to tell the West what it should do. In fact, the East does not know what the West requires in size and it is therefore very presuming for the East to dictate to the West what it should do.



Wallace Power Sprayers

FOR orchard, vineyard, field, and garden. All sizes and styles. Special low prices for Fall orders. Prompt deliveries.

Send for our latest Catalog

Wallace Machinery Co., Champaign, Ill.

APPLE LAND

JUST PUT ON THE MARKET

Write to or call on Frank Davenport, Hood River, Oregon

If you want to buy good apple land in Hood River County, not over six miles from the City of Hood River, West. I have 1800 acres to sell cheap in lots and prices as follows:

160 Acres at \$35.00 per Acre

480 Acres at \$20.00 per Acre

160 Acres at \$30.00 per Acre

320 Acres at \$15.00 per Acre

160 Acres at \$25.00 per Acre

520 Acres at \$10.00 per Acre

This land has water on every 160 acres, and land joining this on the east can not be bought for less than \$225 per acre. Will not sell this land in lots of less than 160 acres.

Terms: Half cash, balance long time at six per cent

WHAT ADVERTISERS SAY OF BETTER FRUIT

RICHEY & GILBERT COMPANY,
Growers and Shippers of Yakima Valley Produce.
1,000 Acres Under Cultivation.

TOPPENISH, WASHINGTON, April 27, 1908.
Better Fruit Publishing Co., Hood River, Oregon.
DEAR SIR—We fully appreciate the excellent paper you are getting out and we realize that you are putting forth a good deal of effort, and have no doubt that you are not being reasonably paid for the hard work you are doing. Hood River and the Northwest are very fortunate in having one of your ability who will devote his time to pushing the fruit interests, and while glory and a good name are perhaps poor pay for your labor, still the good name you are getting is surely worth prizing and may last longer than a money reward. You are doing a great work for the fruit interests of the Northwest. Cordially yours,

RICHEY & GILBERT CO.,
By H. M. Gilbert, Pres. and Mgr.

R. M. KELLOGG COMPANY,
Breeders of Thoroughbred Pedigree
Strawberry Plants.

THREE RIVERS, MICH., June 24, 1908.
Better Fruit Publishing Co., Hood River, Oregon.
GENTLEMEN—We are in receipt of copies of "Better Fruit." We have looked this publication through carefully and must admit that it is beautifully gotten up. The cuts show up handsomely and the reading matter is very valuable indeed. It does seem to us that every fruit grower in the United States should be willing to pay \$1.00 per year for such a valuable publication. In fact, we consider this one issue alone worth the price of a full year's subscription. We take this opportunity to thank you for mentioning the Kellogg Company's name in so many places, and at any time we can be of service to you will gladly do so. Wishing you the success which you so well deserve, we are, very truly yours,

R. M. KELLOGG COMPANY.

R. M. KELLOGG COMPANY,
Breeders of Thoroughbred Pedigree
Strawberry Plants.

THREE RIVERS, MICH., July 6, 1908.
E. H. Shepard, Hood River, Oregon.
DEAR MR. SHEPARD—I was absent from the city when the copies so kindly sent us of June "Better Fruit" came to hand.

Entirely aside from any selfish pleasure we take in the issue, I wish to express my appreciation of the beautiful typography and presswork that characterizes that edition. It is not surprising to me at all that you have such generous local advertising patronage. If the people of the Northwest are wise they will pour the money into your coffers with a lavish hand. As one who has spent his life in newspaper work I know there is no other single influence so potent in the upbuilding of the higher interests of a community or state as a publication so intelligently and wisely devoted to them as is "Better Fruit." Mr. Beatty has expressed to you his sentiments, and I feel that I owe it to you to say this word of cheer and appreciation.

With best wishes for your continued success, I remain, very truly yours,

W. H. BURKE.

EAST HOOD RIVER FRUIT COMPANY.
A. P. Bateham, Manager.

MOSIER, OREGON, August 14, 1908.
Mr. E. H. Shepard, Editor "Better Fruit."
FRIEND SHEPARD—I cheerfully and enthusiastically send you the dollar for another year of "Better Fruit."

It means just what it says for every fruit grower who reads it. It is worth the price every month. Cordially yours,

A. P. BATEHAM.

PRODUCE REPORTER CO.

Paid up Capital \$50,000.
A National Bonded Produce Agency.
Mercantile Reports, Collections, Produce Inspection and Adjustments.

CHICAGO, ILL., September 5, 1908.
"Better Fruit," Hood River Oregon.

We wish to express our appreciation of the fine display and the successful results that are following advertising in your valued medium.

Yours truly,

PRODUCE REPORTER CO.

PRODUCE REPORTER CO.,

A National Bonded Produce Agency.
Mercantile Reports, Collections, Produce Inspection and Adjustments.

CHICAGO, ILL., August 11, 1908.
Better Fruit Publishing Co., Hood River, Oregon.

GENTLEMEN—We cannot refrain from congratulating you upon the magnificent edition you have just gotten out for August. The way "Better Fruit" has taken hold is really surprising, and in our estimation it is the best edited and put together magazine covering fruit culture and proper packing of fruit extant.

We trust that the magazine will have a long and very prosperous existence. Yours very truly,

PRODUCE REPORTER CO.

F. NEWHALL & SONS,

Orchard Packers of Apples,
Wholesale and Commission Dealers in Fruit.

CHICAGO, July 18, 1908.
Mr. E. H. Shepard, Better Fruit Publishing Co., Hood River, Oregon.

DEAR SIR—Letter just received; save half page August number, don't fail, please; best position possible; writing regarding September.

You do not need to write explaining the value of "Better Fruit." We know all about it and believe in it just as much as you do, in fact, we believe it has done more to build up the fruit industry in the Far West than any other one agency, and possibly as much as all the others combined.

Our representative, Mr. Lanham, went through there three or four weeks ago and was very nicely treated by yourselves and everyone else in your locality whom he met. He wants to get out there again. Yours truly,

F. NEWHALL & SONS.

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BETTER FRUIT is always the best of its kind. It should be liberally circulated in its home state. Sent East it will do more to give Easterners an intelligent idea of the possibilities of Oregon soil and Oregon opportunities to cultivators of that soil than any other literature.—Evening Telegram.

◆ ◆ ◆

BOOKS we have read, own and recommend which can be ordered of your local stationer, or direct. The initials after the name represent the publishers, whose address can be found at the end of the list. These books can be ordered of the J. K. Gill Company, Portland, Oregon.

Fruits and Fruit Trees of America—

Downing	W	\$4.50
California Fruits—Wickson	P	2.50
Success with Small Fruits—Roe	DM	.75
American Fruit Culturist—Thomas	WW	2.50
Strawberry Culturist—Fuller	J	.50
The Principles of Fruit Growing—Bailey	M	1.25
Bush Fruits—Card	M	1.50
Horticulturists' Rule Book—Bailey	M	.75
The Nursery Book—Bailey	M	1.00
Pruning Book—Bailey	M	1.50
Cyclopedia of Horticulture—Bailey	D	30.00
Nut Culturist—Fuller	J	.75
Insects Injurious to Fruits—Saunders	L	2.00
Fungi and Fungicides—Weed	J	1.00
Insects and Insecticides—Weed	J	1.50
Spraying Crops—Weed	J	.50
Spraying of Plants—Lodeman	M	1.00
Talks on Manure—Harris	J	1.50
Farming with Green Manures—Harlan	F	1.00
Fertilizers—Voorhees	M	1.00
Irrigation Farming—Wilcox	J	2.00

Irrigation for Farm, Garden and Orchard—Stewart	J	1.50
Irrigation and Drainage—King	M	1.50
Gardening for Profit—Henderson	J	1.50
New Onion Culture—Greiner	J	.50
New Rhubarb Culture—Morse	J	.50
Asparagus—Hexamer	J	.50
Vegetable Gardening—Green	WP	1.25
A B C of Potato Culture—Terry	R	.45
Tomato Culture—Root	R	.35
Melons—Burpee	B	.20
The Vegetable Garden—Vilmorin	D	4.50
The Foreing Book—Bailey	M	1.00
Garden Making—Bailey	M	1.00
Practical Garden Book—Nunn & Bailey	M	1.00
Hedges and Windbreaks—Powell	J	.50
The Soil—King	M	.75
Fertility of the Land—Roberts	M	1.25
The Farmstead—Roberts	M	...
Rural Wealth and Welfare—Fairchild	M	...
Farm Poultry—Watson	M	1.25
How the Farm Pays—Crosier & H.	II	2.00
The First Book of Farming—Goodrich	D	1.00
Cyclopedia of Agriculture	J	4.50
The Principles of Agriculture—Bailey	M	1.25
Roses and How to Grow Them—Sibson & Holman	G	.50

ABBREVIATIONS

Pacific Press Pub. Co., San Francisco, Cal.	P
Orange Judd Co., New York	J
Webb Publishing Co., St. Paul, Minn.	WP
A. C. Root Co., Medina, Ohio	R
W. Atlee Burpee, Philadelphia	B
J. H. Gregory, Marblehead, Mass.	G
Doubleday, Page & Co., New York	D
A. T. Ferris, Shea	F
John Wiley & Sons, New York	W
W. W. Wood & Co.	WW
J. B. Lippincott & Co., Philadelphia	L
J. K. Gill & Co., Portland	G
MacMillan Co., New York	M
P. Henderson & Co., New York	H

Stanley-Smith
Lumber Co.

WHOLESALE AND RETAIL

LUMBER

Lath, Shingles, Wood, Etc.

Hood River, Oregon

Monarch Steel
Stump Puller

Pulls stumps
seven feet in
diameter



Guaranteed
500 horse
power

The only steel stump puller factory in the United States making their own steel stump puller castings. The strongest and lightest machine made

Catalogue and discounts, address

ZIMMERMAN STEEL CO.

Lone Tree, Iowa

Things we are Agents for

KNOX HATS

ALFRED BENJAMIN & CO.'S
CLOTHING

Dr. JAEGER UNDERWEAR

Dr. DEIMEL LINEN MESH
UNDERWEAR

DENT'S & FOWNES' GLOVES

BUFFUM & PENDLETON

311 Morrison Street, Portland, Oregon

St. Helens Hall

Portland, Oregon

A GIRLS' SCHOOL OF
THE HIGHEST CLASS

CORPS OF TEACHERS, LOCATION,
BUILDING, EQUIPMENT THE BEST

Send For Catalogue

OLDEST LIVERY COMPANY IN
THE VALLEY

TRANSFER & LIVERY CO.

Special Attention to Commercial
Men, Camping & Fishing Parties

TELEPHONE MAIN 131

HOOD RIVER, OREGON

VEHICLES AND AGRICULTURAL IMPLEMENTS

THE BEST OF
ORCHARD AND GARDEN TOOLS
A SPECIALTY

J. R. NICKELSEN
HOOD RIVER, OREGON

A Trip to the Coast

Is incomplete without a ride
on the

Mt. Hood Railroad

By Mountain Streams, Apple Orchards
Virgin Forests and Snow
Capped Peaks

Connects with O. R. & N.
at Hood River, Oregon

The PARIS FAIR

Hood River's Largest and Best Store

DRY GOODS SHOES, CLOTHING

We are offering some extra specials in
our Clothing Department. Ask to see them

Try a pair of American Lady
\$3 & \$3.50 Shoes or American
Gentlemen \$3.50 & \$4

F. A. FRAZIER WRITES OF LIME-SULPHUR SPRAY

Hood River, Oregon, July 7, 1908.
Mr. E. H. Shepard, Editor "Better
Fruit."

Dear Sir: I wish to call to your attention an apparent discrepancy contained in an article appearing in a past issue of "Better Fruit" and credited to the Horticultural Board, discussing, among other things, lime and sulphur spray.

In this article the usual formula for making the lime and sulphur spray is given, namely, 15 pounds of sulphur, 15 pounds of lime and 50 gallons of water. And then the article goes on to say that the manufacturers of the commercial lime and sulphur solution should be required to have in their preparations 15 pounds of sulphur in solution. The point which your valuable contributor overlooks is that he would require the orchardist to put into his own home-made spray only 15 pounds of sulphur, let what may of that 15 pounds actually enter into his solution, while the maker of a commercial spray must not only put the 15 pounds into his cooking vat to every 50 gallons of water, but must produce the entire 15 pounds in the resulting product.

Now, the well-known fact is that no one has ever been able to completely dissolve and get into perfect solution the entire quantity of sulphur put into the vat; the fact is that the average orchardist will have a dope of uncer-

tain value—a mixture with a considerable portion of his original 15 pounds of sulphur not dissolved and in no wise in solution. Then if a spray made after the formula given is found efficient, why require the manufacturer of the commercial spray to do more by getting all of his 15 pounds of sulphur in actual and complete solution.

It is well for all to exercise caution in regard to any spray offered for sale ready made, to the end that only such as are found reliable may be used, but there seems to be no reason why at this time after such commercial sprays as the Niagara Lime and Sulphur Solution has been tried out for two seasons in nearly every fruit section of the Pacific Coast, and when most people are familiar with that spray, to be making any comparisons with the uncertain home-made article.

I would suggest to leaders of thought along this line that they advise people how best to test the commercial sprays so that they not only know what they are getting, but that they may know how to get not only 15 pounds of sulphur to the 50 gallons of water, but 150 if they desire. A reliable commercial solution can be used so as to have any required amount of sulphur in solution up to the limit of its concentrated strength.

Yours very truly,

F. A. FRAZIER.

AN OFFICIAL DECISION AT WASHINGTON STATE FAIR TO BE GIVEN ON FINEST APPLE SECTION

"Malaga grapes are very fine grapes, But grapes from Smyrna are better."

OFFICIAL decision is to be made at the Washington State Fair this year as to which section within the state boundaries grows the finest apples. It is a distinction which every one of the fruitgrowing districts has unofficially claimed for itself, Wenatchee and Yakima being the most conspicuous among the rivals. The fair commissioners have cleverly arranged to put the matter to a test, a gold medal of considerable value being offered for the best display of apples by any district of the state at the annual exhibition September 28-October 3 at North Yakima. The scores for judging the exhibits will be as follows: Number of varieties and extent of display, 10; size, 15; form, 20; quality, 20; color, 15; freedom from blemish, 20. No exhibit scoring less than 75 will be considered.

To encourage the proper packing of fruit and in order that all growers may see just how apples should be packed for market, a special premium is offered this year for the best ten boxes of different varieties of apples packed for shipment. A first prize of \$75 shows that Superintendent Edward Remy, of the horticultural department, thinks this object lesson will be of exceptional value to the orchardist. No particular varieties are stipulated and the exhibitor retains possession of the fruit.

North Yakima merchants have made up a purse of \$600 to be divided in three prizes for the best three county general fruit displays, Yakima County being ineligible. This premium was offered last year for the first time and was so well liked that it is repeated. There is also an unhandicapped county race for \$600 in four prizes, an event which Yakima County has taken for several years.

Fruit displays will be made in the windows of all down-town stores during

fair week, the North Yakima Commercial Club fathering the plan and offering several money prizes for the most attractive show windows.

Judges in the horticultural department will be State Fruit Inspector F. A. Huntley, Professor W. S. Thornber, of the State College at Pullman, and Frank B. Rhodes, of Spokane.

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PORTLAND, OREGON, May 28, 1908.

Better Fruit Publishing Co., Hood River, Oregon.
GENTLEMEN—We send herewith an illustration of a recent ram installation which we put in at Sunnyside, in the Yakima Valley, on the property of Mr. S. J. Harrison, a prominent banker and landowner in that district.

This plant consists of a eleven 6-inch Columbia Rams, located on the Snipes Mountain lateral, a branch of the Government irrigation project. The fall from the ditch to the ram is 37.6 feet, and the quantity of water passing through the drive pipes is 6.26 cubic feet per second. The velocity of this water flowing through the rams generates power enough to lift 1.15 cubic feet, or 517 gallons, per minute, to an elevation of 143.11 feet above the ram, through 1,765 feet of discharge pipe.

This certainly is the most economical method of lifting water by water power that has yet been devised, for these rams operate day after day without attendance or consumption of fuel, or other expense, and give a constant flow of water greater than any combination of water wheel and pump.

By means of this installation a large acreage of uplands heretofore considered unavailable for agricultural purposes has been utilized and enhanced in value to a point far beyond the expectations of the most sanguine settler.

When we consider that this machine has been developed by one of our Pacific Coast manufacturers, the Columbia Steel Company, of Portland, we may feel satisfied that the western manufacturer is keeping pace with the needs of the western agriculturist. Not only are these machines made in large installations suitable for irrigation, but also for farm and domestic purposes, in sizes down to the very smallest machines, suitable for utilizing as little as 2½ gallons of spring water per minute for power to lift a portion of this to the house or barn.

Fruit growers will do well to look into this method of lifting water cheaply, for after the first cost there is practically no expense, and the advantages of a water supply when wanted are of untold value. Yours very truly,

COLUMBIA STEEL COMPANY.

CAPITAL \$50,000

SURPLUS \$15,000

FIRST NATIONAL BANK

HOOD RIVER, OREGON

F. S. STANLEY, *President*
E. L. SMITH, *Vice President*
E. O. BLANCHARD, *Cashier*
V. C. BROCK, *Assistant Cashier*

ASSETS OVER \$325,000

Savings Bank in connection

OREGON'S PRUNE CROP

THE prune crop of Oregon will be about eighteen thousand pounds this year, somewhat less than last year's crop, which amounted to about twenty-three thousand pounds. Some few years ago people rushed headlong into the prune business, creating a supply before the demand. Recently the public has become educated to the value of prunes as a diet, and as everyone needs some kind of fruit with every meal, nothing makes a finer dessert than dried prunes. The rapidity with which the public learned to appreciate the prune as a daily diet has steadily strengthened and increased the demand, so that during the last two years nearly every prune orchard brought good money.

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PARAGRAPH PULPIT

IT is often urged that reason is opposed to faith. Unitarians believe this is not true. Reason deepens and enlarges faith. There is no real opposition between science and religion. Science gives us larger views of religion, and true religion impels reverent and profound research. Science and religion should be the closest allies, for their combined power is in the end irresistible. Our Unitarian is in full accord with science. We welcome all that it brings—as a power to deepen the religions and life. We love truth more than tradition. So did Christ. If we live in his spirit, and so abide in him, we shall know the truth, and the truth shall make us free.—C. T. Billings. (For Unitarian literature free, address 346 Yamhill Street, Portland, Oregon.)

FIRST NATIONAL BANK

PORTLAND, OREGON

CAPITAL AND SURPLUS

\$1,500,000.00

No interest paid on accounts

A. L. MILLS *President*
J. W. NEWKIRK . . . *Cashier*
W. C. ALVORD . . . *Asst. Cashier*
B. F. STEVENS . . . *2d Asst. Cashier*

The WHITE SALMON VALLEY BIENNIAL FRUIT FAIR

October 13 and 14

The Grandest Display of Fruit Ever Exhibited in Southern Washington

Come and See Our Exhibit and be Convinced That This Valley Has no Equal in the Production of High Grade Fruit

ANY INFORMATION DESIRED WILL BE CHEERFULLY
FURNISHED BY SECRETARY OF THE ASSOCIATION

THE DALLES, OREGON

"The Cherry City"

BEAUTIFULLY located on the Scenic Columbia River just east of the Cascade Range of Mountains, where apples, pears, peaches, cherries and apricots are grown to perfection without irrigation. Choice fruit land in small tracts offered at \$50 to \$150 per acre on easy terms. *Address*

THE DALLES BUSINESS MEN'S ASSOCIATION

LESLIE BUTLER, President
J. N. TEAL, Vice President
TRUMAN BUTLER, Cashier

Established 1900
Incorporated 1905

Butler Banking Company

HOOD RIVER, OREGON

Capital Fully Paid \$50,000 Surplus and Profits are \$20,000

We give special attention to GOOD FARM LOANS

If you have money to loan we will find you good Real Estate security or if you want to borrow we can place your application in good hands and we make no charge for this service

LADD & TILTON BANK

ESTABLISHED 1859

PORTLAND, OREGON

Capital Fully Paid \$1,000,000.00
Surplus and Undivided Profits \$500,000

Officers:
W. M. Ladd, President R. S. Howard, Jr., Assistant Cashier
Edward Cookingham, Vice President J. W. Ladd, Assistant Cashier
W. H. Duncley, Cashier Walter M. Cook, Assistant Cashier

INTEREST PAID ON TIME DEPOSITS AND SAVINGS ACCOUNTS

Accounts of banks, firms, corporations and individuals solicited. We are prepared to furnish depositors every facility consistent with good banking

CHAS. G. PRATT, President
R. W. PRATT, Cashier

J. H. OSBORNE, Vice President
M. M. HILL

WILSON FIKE
C. H. STRANAHAN

Hood River Banking & Trust Co.

HOOD RIVER, OREGON

We own and occupy the finest equipped and most modern bank in Hood River County

A General Banking and Trust Business Transacted
Safe Deposit Boxes Interest paid on Time and Savings Deposits
Make Our Bank Your Headquarters When in Hood River

Correspondence Invited

Your Patronage Solicited

MARKET YOUR FRUIT WITH THESE BUYERS

EASTERN BUYERS

F. Newhall & Sons, Chicago; George Midden-dorf Co., Chicago; Gibson & Co., Chicago; H. Woods Co., Chicago; W. N. White & Co., New York; Steinhardt & Kelly, New York; E. P. Loomis & Co., New York; D. Crossley & Sons, New York; Rae & Hatfield, New York; Keally & Lovett, Pittsburg; Appel & Uffly, New Orleans; Ives & Wynn, Philadelphia; C. C. Clemmons & Co., Kansas City, Mo.; J. Grainger & Co., Lincoln, Neb.; W. K. Nash, Grand Forks, N. D.

WESTERN BUYERS

Davenport Bros., Portland, Oregon; Pearson, Page & Co., Portland, Oregon; McEwen & Koskey, Portland, Oregon; Page & Son, Portland, Oregon; Davenport & Thompson, Portland, Oregon; Mark Levy, Portland, Oregon; Bell & Co., Portland, Oregon; Levy & Spiegl, Portland, Oregon; W. B. Glafke & Co., Portland, Oregon; Dryer, Bolla Co., Portland, Oregon; California Commission Co., Seattle, Washington; W. Biglow & Co., Seattle, Washington; Ryan & Newton, Spokane, Washington; Davidson Fruit Co., Hood River, Oregon; A. O. Hershey, Hood River, Oregon; Allen Fruit Co., Eugene, Oregon; Buchan & Behrens Co., Portland, Oregon; Kane & Co., Portland, Oregon; The Dalles Fruit Co., The Dalles, Oregon; Capital Commission Co., Helena, Montana; Richey & Gilbert, Toppenish, Washington; Ryan & Newton Co., Butte, Montana; Lindsay & Co., Helena, Great Falls and Billings, Montana; Lawrence Hensley Fruit Co., Denver, Colorado; H. S. Gile & Co., Salem, Oregon; H. S. Emerson Co., Seattle, Washington; Tillson & Co., Salem, Oregon; R. H. Weber, The Dalles, Oregon; Levy & Zentner, San Francisco, California; The Callender Vanderhoof Company, Minneapolis, Minn.

APPELUFY TO APPLSHIPR

The apole season have "came" again, once more, We're told the crop is far better than that the year before, That worms are scarce and fruit will grade all Fancy No. 1; Quality and size so good that packing will be orchard run. The dealer beams with pleasure, to get such glorious news;

No scab, no bitter rot, no fungus, to give him a case of "blues." As he opens up a barrel, or takes the cover off the box, He tells the trade: "No use to 'dig'—this season is a paradox." We want to tell you what we want, and just how we are fixed, This market wants red fruit and a pack that is not mixed;

Black Twig, Arkansas Black, Jonathan, Gano, Baldwin and Grimes Golden, Pippins, Winesap, Bellflower, and Louis Erbe's Old Uncle Ben. New Orleans is growing fast, and we belong to the "Booster's" Club; Two apples each must eat a day, be he Democrat or Repub. We have engaged cold storage space for fifty cars or more,

So let us know at once, how much you may decide to store. Get in touch with us at once, and tell us what you've got, And also say how much of each, as our trade requires a lot. Careful handling, grade and pack, with good fruit, always sells the best, So here's to a good season for our friends, North, East, South and West. August 20, 1908. G. H. APPEL, New Orleans, Louisiana.

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A. C. Rulofson Co., Monadnock Building, San Francisco, Cal.

GENTLEMEN—The Earl Fruit Company have employed the Pearson Cement Coated Wire Nail for many years in making up all of its box material, using from two to five carloads annually. It has not only employed the nail mentioned in that branch of its business where nails are required, but has used the Pearson Cement Coated Nail exclusively, and this because of its many good qualities, chief among which is that it holds more firmly and is therefore more difficult to loosen and pull out than any other nail, which are qualities essential to the making of serviceable and lasting boxes. So far as our experience extends, it is unexcelled. Very truly yours,

EARL FRUIT COMPANY,
GEO. B. KATZENSTEIN, MANAGER,

BETTER FRUIT

HOOD RIVER, OREGON

OFFICIAL ORGAN OF
THE NORTHWEST FRUIT GROWERS' ASSOCIATION

A MONTHLY ILLUSTRATED MAGAZINE
PUBLISHED IN THE INTEREST OF UP-TO-DATE
FRUIT GROWING AND MARKETING

ALL COMMUNICATIONS SHOULD BE ADDRESSED AND
REMITTANCES MADE PAYABLE TO

BETTER FRUIT PUBLISHING COMPANY

E. H. SHEPARD CHRIS GREISEN
EDITOR AND PUBLISHER TRAVELING REPRESENTATIVE

SUBSCRIPTION PRICE \$1.00 PER YEAR
IN ADVANCE IN UNITED STATES AND CANADA

FOREIGN SUBSCRIPTIONS, Including Postage, \$1.50
ADVERTISING RATES ON APPLICATION

Entered as second-class matter December 27, 1906,
at the postoffice at Hood River, Oregon,
under act of Congress of March 3, 1879

THE conditions of fruit crop, August 1, 1908, and comparisons, is a splendid and instructive statistical page, and no grower should pass up reading this article.

PRESERVING Fruit for Exhibition Purposes, is a very valuable article for our fruit growers to read. Every grower has some fine specimens which he would like to keep. He can preserve them if he will read this article and follow instructions carefully.

THE DALLES Fruit Fair will be held October 7, 8, 9 and 10. The display made last year at The Dalles not only surprised the public but even the business people of the The Dalles city. They will outdo themselves at the exhibit this year. The three fairs. The Dalles, White Salmon and Hood River, extend to other districts an invitation to visit these sections and exchange ideas.

HOOD RIVER will hold a Biennial Apple Fair on October 15, 16 and 17, which promises to be the largest and most attractive apple show that Hood River has ever made. There will be at least one thousand fancy boxes of apples on exhibit. It is worth any man's time to come and see this show, and it is our opinion that fruit growers should make a business of visiting other districts. The people of Hood River will take pleasure in extending the glad hand to all visitors, and it is the desire of the fruit growers of Hood River to meet the growers and visitors from every other section at this show.

THE Gaviota Plum produced on the cover page of "Better Fruit," is one of the Burbank new varieties which is being introduced by the Fancher Creek Nurseries, Fresno, California. In January, 1908, we produced the Rutland Plumcot on the cover page, and in the October issue, 1907, the Santa Rosa Plum. All of these three plums are creations of Luther Burbank, and are being introduced by the Fancher Creek Nurseries. Mr. Burbank was kind enough to send the editor of "Better Fruit" some samples of these plums last year. They are of splendid size, magnificent color and of the most delicious flavor of any plums that the editor has ever had the pleasure of eating. We therefore speak for a favorable consideration from all fruit growers. I believe every fruit grower

should at least order a few of these varieties with a view of ascertaining if they are suited to his soil and climatic conditions. Every man who has a home orchard should try these plums for home use.

THROUGH an oversight "Better Fruit" failed to give the Experimental Station at Corvallis credit for some cuts used in the last issue. We beg to apologize for the oversight, which will not occur again.

IN another part of this paper is a list of a few prominent Eastern apple buyers and a list of prominent Western buyers and commission men, both of which will be of great value to fruit growers and fruit shippers.

SUCH magazines as Country Life in America, Review of Reviews, World's Work, Outing, Everybody's Magazine, Woman's Home Companion, Delineator, and others which you will find in our clubbing list, are certainly the highest class literature published in their respective lines in America.

FRUIT growers are continually writing to "Better Fruit" to ascertain where to buy trees. We are publishing a complete list of all members of the Pacific Coast Association of Nurserymen, so that everybody can find out from this list where to buy trees, and can find out not only the closest nursery to his district or in his district, but the names of all others in business who are very important.

WE publish for the first time in this edition a classified list of all advertising. The largest lists, of course, are fruit dealers, nurserymen, real estate dealers, commercial clubs and fruit growers' unions, followed by an alphabetical list of all other lines represented in "Better Fruit." This list will be of inestimable value to every reader of "Better Fruit." It contains a list of some house in nearly every line of business in which fruit growers are interested. In fact, it is a complete directory to the fruit grower or the man about to engage in the fruit industry. We believe you will get good fair treatment from every advertiser in "Better Fruit." We aim to accept no advertising from unreliable firms. We have worked hard to get up a list of representative and reliable firms, and we have worked hard to secure their advertising, so that the fruit grower might be more fully informed of the complete lines carried by these firms. As these firms have assisted in maintaining "Better Fruit," which has been a great help to the fruit grower—by placing their advertising with us, we feel they are entitled to the fruit growers' trade. It would be a great favor to us, when writing any of our advertisers, if you would mention "Better Fruit." While our advertisers have helped "Better Fruit," which has been of great benefit to the fruit growers, as everyone knows, the advertisers have been helped by "Better Fruit" in turn, by the patronage they have secured from fruit growers. This is self-evident, for the reason our advertising has increased from six to twenty-five pages. Our original advertisers have continued with us and season advertisers have

Stranahan & Clark

DEALERS IN

Commercial Fertilizers
Land Plaster, Lime
Plaster Paris, Cement
Building Plasters
Hood River, Oregon

ORCHARDIST SUPPLIES

Of Every Description

Tarred Rope, Pruning Shears,
Thinning Shears, Nozzles,
Budding Knives, Pruning
Knives, Pruning Saws

E. A. Franz Hood River
Oregon

HEADQUARTERS FOR CENTURY SPRAY PUMPS

Hose, Nozzles, First-class Plumbing Supplies

C. F. SUMNER
Successor to Norton & Smith
HOOD RIVER, OREGON

SLOCOM'S BOOK STORE

Office Supplies
Stationery

Ledgers, Journals, Time Books
Memorandum Books
Rubber Stamps
Souvenir Postals Picture Frames

Our Unparalleled Clubbing Offers

"Better Fruit" offers to readers what it considers the finest list of clubbing offers ever placed before the public in the Northwest. Its variety is one that must appeal to readers of all classes. Look it over carefully, select the one you want and send us the proper amount and we will do the rest.

Review of Reviews.....	\$3.00	World's Work	\$3.00
Success Magazine	1.00	Delineator	1.00
"Better Fruit"	1.00	"Better Fruit"	1.00
	\$5.00		\$5.00
All for	\$3.00	All for	\$3.00
Sunset Magazine	\$1.50	Country Life in America....	\$4.00
Road of a Thousand Wonders..	.75	McClure's and Woman's Home	
"Better Fruit"	1.00	Companion or Success	2.00
	\$3.25	"Better Fruit"	1.00
All for	\$1.50		\$7.00
Pacific Monthly	\$1.50	All for	\$4.75
Weekly Journal	1.00	Country Life in America....	\$4.00
"Better Fruit"	1.00	American and Success or	
	\$3.50	Woman's Home Companion	2.00
All for	\$2.00	"Better Fruit"	1.00
The Farmer (Spokane, Wash.)	\$0.50		\$7.00
"Better Fruit"	1.00	All for	\$4.75
Both	\$1.00	Country Life in America....	\$4.00
Breeders' Gazette	\$2.00	Review of Reviews or Outing..	2.50
"Better Fruit"	1.00	"Better Fruit"	1.00
Both	\$2.00		\$7.50
Northwest Poultry Journal....	\$0.50	All for	\$4.75
"Better Fruit"	1.00	Country Life in America....	\$4.00
Both	\$1.00	Everybody's Magazine	1.50
Weekly Oregonian	\$1.50	Delineator	1.00
"Better Fruit"	1.00	"Better Fruit"	1.00
Both	\$1.50		\$7.50
Oregon Agriculturist50	All for	\$4.75
"Better Fruit"	1.00	Country Life in America....	\$4.00
Both	\$1.00	"Better Fruit"	1.00
American Fruit and Nut			\$5.00
Journal50	Both for	\$4.00
"Better Fruit"	1.00	Everybody's Magazine	\$1.50
Both	\$1.00	Delineator	1.00
World's Work	\$3.00	"Better Fruit"	1.00
Everybody's Magazine	1.50		\$3.50
Delineator	1.00	All for	\$2.25
"Better Fruit"	1.00	Woman's Home Companion ..	\$1.00
	\$6.50	"Better Fruit"	1.00
All for	\$3.75		\$2.00
World's Work	\$3.00	Both for	\$1.40
Everybody's Magazine	1.50	Garden Magazine	\$1.00
"Better Fruit"	1.00	Farm Journal75
	\$5.50	"Better Fruit"	1.00
All for	\$3.00		\$2.75
World's Work	\$3.00	All for	\$1.75
"Better Fruit"	1.00	Garden Magazine	\$1.00
	\$4.00	"Better Fruit"	1.00
Both for	\$3.00		\$2.00
World's Work	\$3.00	Both for	\$1.40
Country Life in America....	4.00	Farm Journal75
Everybody's Magazine	1.50	"Better Fruit"	1.00
Delineator	1.00	Both for	\$1.25
"Better Fruit"	1.00	Pacific Monthly	\$1.50
	\$10.50	"Better Fruit"	1.00
All for	\$6.50		\$2.50
		Both for	\$1.75

These clubbing rates do not apply in Canada owing to extra postage

returned every season. It is evident, therefore, that they are getting results. We are pleased to say that only three or four cases have been reported where fruit growers have received unsatisfactory results from our advertising. It is our intention to discontinue any advertising whenever a number of just complaints come to our office.

◆ ◆ ◆

WHITE SALMON will hold its Biennial Fair on October 13, 14, just two days in advance of Hood River fair, so as not to interfere and at the same time to give fruit growers the privilege of attending both shows and seeing the magnificent fruit display that will surpass all previous exhibits.

◆ ◆ ◆

A LITTLE over two years ago "Better Fruit" began its publication, a small paper of twenty-four pages without a single subscriber. Today it is a magnificent publication of fifty-two pages, known all over America, with subscribers in twelve foreign countries and stands at the head of its class as a straight horticultural magazine. "Better Fruit" is recognized as the best horticultural paper printed in the English language.

◆ ◆ ◆

IN another part of this paper is a list of every association and union in the Northwest territory. This list is certainly very valuable to Eastern buyers and commission men who are looking to the West for fancy fruit. It affords the Eastern fruit dealers an opportunity to get in correspondence with every district, by giving them the name of the union. We trust the article will be in turn of much value on the other hand to the fruit growers, for the reason that this list placed in the hands of Eastern commission men and fruit buyers, will place the union in touch with the consumers.

◆ ◆ ◆

THE October number of "Better Fruit" contains two articles on the walnut industry, which is quickly springing into prominence in the Willamette Valley, which are well worth reading. Any man interested in walnut culture will find these articles instructive and valuable. We call attention to these two articles for the reason that "Better Fruit" has never published much in reference to the walnut industry on account of the editor's lack of knowledge pertaining to the growing of walnuts. We hope in the future to have articles contributed by men who understand growing walnuts, and in this way to make "Better Fruit" interesting and instructive to walnut growers.

◆ ◆ ◆

OUR unparalleled clubbing offer appears in another part of this edition. Our clubbing list embraces nearly all the principal magazines in the various classes of literature. We have accepted only the best in the respective classes. The list that we have offered is certainly unparalleled by any other publication at the present time. We feel proud of this list and we have reason to be proud of it. It is certainly a matter of great satisfaction and a recognition of the standing of "Better Fruit," to be able to present to the public such a clubbing list of high class magazines. We beg to say in addition, that all of these clubbing offers have come to us without solicitation.

PRESERVING FRUIT FOR EXHIBITION PURPOSES

A GREAT many experiments have been made in the attempt to find some fluids or solutions in which the more perishable fruits could be kept for exhibition at fairs and expositions. Some of these have proved very satisfactory for certain fruits, but it is doubtful if any process will ever be discovered by which the softer kinds, such as strawberries and raspberries, can be kept for any considerable length of time without much change in color.

The specimens to be preserved should be the most perfect obtainable, free

from all blemishes and imperfections. In most cases fruit of a fair degree of ripeness is better than partly green specimens.

Exhibition jars should be of clear white glass and preferably with ground glass stoppers. The tall, cylindrical form is desirable, especially for the smaller fruits.

The sorted fruit is first carefully placed in the jar, which is then filled with clear water. After standing a short time the water should be poured off so as to remove all particles of dirt from the jar and contents. The jar may then be filled with the preserving fluid and kept in a dark, cool place until the time for exhibition. Frequent examination should be made to determine how well the fruit is keeping. If the liquid becomes colored from the fruit, it should be poured off and replaced by a fresh supply of fluid.

The following formulas have been successfully used at the Colorado Agricultural College, especially with plums, prunes, grapes, cherries, currants and gooseberries:

Formalin, 5 parts; saturated solution of common table salt, 10 parts; water (boiled and cooled), enough to make 100 parts.

This may be made up by measures as follows: Formalin, 1 pint; salt solution, 2 pints; water, 17 pints.

When made up, the solution will keep indefinitely. Another solution weaker in formalin has also been used here satisfactorily. The proportions are: Formalin, 3 parts; salt solution, 10 parts; water enough to make 100 parts.

For raspberries the following mixture is recommended: Formalin, 1 part; glycerine, 10 parts; water, 89 parts.

Strawberries may be preserved fairly well in a saturated solution of common salt, and better still in a fluid composed of formalin, 1 ounce; alum, 1 dram; glycerine, 5 ounces; water, 3 pints.

Red currants keep best in a solution of corrosive sublimate, 1 part; glycerine, 10 parts; water, 89 parts.

The corrosive sublimate must be dissolved in hot water and the solution and fruit preserved in it should be labeled poison, as it is very deadly if taken internally.

The glass stoppers of bottles and jars may be made perfectly tight by smearing the ground surface with a small amount of light-colored vaseline. This will also prevent, in great measure, the sticking of the stoppers when it is desired to remove them.—O. B. Longyear, Associate Professor of Botany, Colorado Agricultural College.

Okanogan NURSERIES

We have not another fruit tree to sell this season. We have however, a fine line of roses, shrubs, shade trees, berries and grapes

OMAK, WASHINGTON
OKANOGAN COUNTY

The Russellville Nursery Co.

Montavilla Station, Portland, Oregon

Offers a good variety of fruit trees and ornamental shrubs

Get our prices before planting

420 Acres Devoted to Nursery Purposes

THE WOODBURN NURSERIES

Established 1863 by J. H. Settlemier

Grower of Choice
Nursery Stock
F. W. SETTLEMIER
WOODBURN, OREGON

ALL KINDS OF SEEDS

Best of Quality

McREYNOLDS & Co.
HOOD RIVER, OREGON

True to Name Nursery Offers to Planters

For fall, 1908, a choice stock of apple, cherry, pear and peach, including all the leading varieties adapted to this locality, with special reference to Yellow Newtown and Spitzenberg Apples, Lambert, Bing and Royal Ann Cherries, Buerre D'Anjou and Comice Pears, Foster, Elberta, Salway, Early and Late Crawford Peaches. All buds and scions selected from the best bearing orchards in Hood River. Price list on application

H. S. GALLIGAN
Phone Home 2002K Hood River, Oregon

ENGLISH WALNUT GROVE

Our Plantings are the Largest and Finest in YAMHILL COUNTY, OREGON (Heart of Willamette Valley) and are of the Mayette and Franquette varieties. Will sell in 5-acre groves. Life of every tree guaranteed. \$100 cash payment and \$15 per month, which includes 4 years Care and Taxes. For prices and illustrated descriptive pamphlet address GILLETTE-RIGGS LAND COMPANY 614 Board of Trade Building Portland, Oregon

Milton Nursery Co.

MILTON, OREGON

Specialties for 1908-9—Pear and Cherry Trees Two-year-old Cutleaf Weeping Birch, Maples, Elms, Snowballs, and a good stock of all other shades and ornamentals listed in catalogue. Send for it.

PORTLAND WHOLESALE NURSERY COMPANY

Room 10 Lambert-Sageant Building

Corner East Alder and Grand Avenue PORTLAND, OREGON

The TIM KELLY NURSERIES

A Large Choice Stock of Apple, Peach and Pear, in all the Leading Varieties for Fall Delivery. Every Tree Grown in my own nurseries and under my own personal supervision

Tim Kelly, The Nurseryman

SALES OFFICE
118 YAKIMA AVENUE EAST, NORTH YAKIMA
NURSERIES AND BUSINESS OFFICE
WAPATO, WASHINGTON

J. B. Pilkington

NURSEYMAN
PORTLAND, OREGON

SPECIALIST IN
NUT TREES

Fruit and Ornamental Trees

SEND FOR CATALOGUE

PACIFIC COAST ASSOCIATION OF NURSERYMEN

Armstrong, John S., Ontario, California.
Atwood, C. J., Toppenish, Washington.
Baristow, J. W., Hanford, California.
Benjamin Chase Co., Derry, N. H.
Bonnell, J. J., Seattle, Washington.
Bouillard, F. X., Chico, California.
Brooks & Son, Carlton, Oregon.
Brownell, A., Portland, Oregon.

California Nursery Co., Niles, California.
California Rose Co., Los Angeles, California.
Chambers, Charles A., Fresno, California.
Chico Nursery, Chico, California.
Coates, Leonard, Morgan Hill, California.
Cody, L. R., Saratoga, California.
Crocker, L. L., Loomis, California.

DeHart, F. R. E., Kelowna, B. C.
Eachus, R. P., Lakeport, California.
Eckert, A., Detroit, Washington.
Foster, A. T., Dixon, California.
Freeborough, Montavilla, Oregon.

Galligan, H. S., Hood River, Oregon.
Galloway & Harmon, Healdsburg, California.
Gibbs, George, Clearbrook, Washington.
Giffin, O. F., Pomona, California.
Gill, E., West Berkeley, California.
Griffith, Tom, Penryn, California.

Harlan, T. E., Chico, California.
Harness, Dix & Co., Roy, Utah.
Hartley, C. P., Caldwell, Idaho.
Harvey, N. B., Milwaukie, Oregon.
Hedberg, T. E., Lindsay, California.
Heikes, W. F., Huntsville, Alabama.
Henry, M. J., Vancouver, B. C.
Holaday, A., Scannoose, Oregon.
Howard, C. W., Hemet, California.

Ingalls, W. D., North Yakima, Washington.

Jones, Rolla A., Hillyard, Washington.

Kelly, Wm., Imperial, California.

Lansing, C. F., Salem, Oregon.
Layritz, Richard, Victoria, B. C.
Lewis, H. A., Russellville, Oregon.
Lingham, A., Puvallup, Washington.
Littooy, J. F., Mountain Home, Idaho.

Malmo, C., Seattle, Washington.
Marshall, S. W. & Son, Fresno, California.
Maxwell, John, Napa, California.

McClain, W. S., Sunnyside, Washington.
McCormick, C., Portage, Washington.
McDonald, A. W., Toppenish, Washington.
McDonald, M., Salem, Oregon.
McFarland, C., J. Horace, Harrisburg, Penn.
McGill, A., Salem, Oregon.
McHutchinson & Co., New York, N. Y.
Miller, G. W., Milton, Oregon.
Miller, S. A., Milton, Oregon.
Mills, James, Riverside, California.
Morse, C. C. & Co., San Francisco, California.

Nelson, Fred, Fowler, California.

Park Nursery Co., Pasadena, California.
Peaslee, G. W. R., Clarkston, Washington.
Peirce, B. F., Albany, Oregon.
Pilkington, J. B., Portland, Oregon.
Pioneer Nursery Co., Salt Lake, Utah.
Power, F. W., Chico, California.

Rawson, C. F., Hood River, Oregon.
Remlinger, L., Vancouver, Washington.
Remlinger, M., Vancouver, Washington.
Roeding, George C., Fresno, California.
Ruehl-Wheeler Nursery, San Jose, California.

Sandahl, C. N., Seattle, Washington.
Sanders, G. W., Davisville, California.
Scheidecker, Sebastopol, California.
Settlemyer, F. W., Woodburn, Oregon.

Shadow, J. W., Winchester, Tennessee.
Sibson, W. S., Portland, Oregon.
Silva & Bergtholdt Co., New Castle, California.
Sluman & Son, Mount Tabor, Oregon.
Smith, E. P., Gresham, Oregon.
Smith, O. F., Blackfoot, Idaho.
Southern Nursery Co., Winchester, Tennessee.
Spalding, T. K., Sunnyside, Washington.
Stanton, F. H., Hood River, Oregon.
Stewart, J. A., Christopher, Washington.
Stratton, W. A. T., Petaluma, California.

Taft, S. H., Sawtelle, California.
Teague, R. M., San Dimas, California.
Thomas, Jacob & Brother, Visalia, California.
Tillinghast, A. G., La Conner, Washington.
Tosetti, G., Toluca, California.
True, T. J., Sebastopol, California.
Tyler Bros., Kimberly, Idaho.
Utah Nursery Co., Salt Lake, Utah.

Vredenberg & Co., Rochester, N. Y.

Wagner, J. B., Pasadena, California.
Weber, R. H., The Dalles, Oregon.
Wheeler, W. F., Oakesdales, California.
Wiggins, F. A., Toppenish, Washington.
Wightman, E. W., Chico, California.
Wright Nursery Co., Cashmere, Washington.

Young, C. N., Tacoma, Washington.

CONDITION OF FRUIT CROP AUGUST 1, 1908, AND COMPARISONS

STATE, TERRITORY OR DIVISION.	PEARS.			GRAPES.					APPLES.				PEACHES.					
	Per cent of U. S. vines in State. ^a	Condition		Per cent of U. S. trees in State. ^a	Condition July 1, 1908.	Condition Aug. 1			Per cent of U. S. trees in State. ^a	Condition July 1, 1908.	Condition Aug. 1.			Per cent of U. S. trees in State. ^a	Condition July 1, 1908.	Condition Aug. 1.		
		July 1, 1908.	Aug. 1, 1908.			1908.	1907.	Six-year average.			1908.	1907.	Ten-year average.			1908.	1907.	Six-year average.
Maine	0.2	75	70	84	P.c.	P.c.	P.c.	P.c.	2.1	68	55	74	68		P.c.	P.c.	P.c.	P.c.
New Hampshire	2	80	80	85					1.0	85	65	70	67		80		45	70
Vermont	2	89	85	84					8	89	83	75	68					
Massachusetts	8	82	83	85					9	77	65	70	66		3	80	70	40
Rhode Island	1	82	83	85					1	70	60	65	68		64	60	35	57
Connecticut	5	75	75	0.1	85	85	80	84	6	65	55	89	74		5	75	71	20
New York	12.3	82	85	16.3	84	85	83	82	7.5	75	68	65	57		2.5	65	63	25
New Jersey	5.2	73	75	7	83	84	85	85	9	60	50	59	61		2.7	78	70	45
Pennsylvania	4.6	75	78	2.6	84	81	70	78	5.8	70	63	44	59		3.5	66	62	26
Delaware	2.2	55	58	1	85	80	70	79	3	75	65	44	66		2.4	70	62	25
Maryland	3.9	69	70	2	81	82	75	82	9	64	62	50	65		4.0	68	66	25
Virginia	1.7	58	63	5	86	80	72	79	4.1	66	60	40	52		1.9	60	56	20
West Virginia	6	61	61	2	85	78	65	75	2.7	59	55	32	45		1.7	68	64	20
North Carolina	8	53	57	7	86	83	75	81	3.2	75	77	30	59		2.8	63	62	30
South Carolina	4	75	80	2	88	90	47	80	3	87	89	20	56		1.1	92	93	15
Georgia	2.2	75	80	1.3	86	90	70	84	1.2	70	75	30	52		7.7	90	89	22
Florida	1.2	67	69	1	87										4	76	73	40
Ohio	5.2	66	70	7.6	83	82	85	82	6.4	55	49	30	47		6.4	67	64	25
Indiana	4.9	56	58	1.4	85	84	77	82	4.3	40	30	35	48		2.9	64	59	30
Illinois	4.5	47	47	1.7	87	84	80	82	6.7	43	31	30	49		2.4	64	60	30
Michigan	6.7	78	76	2.9	87	85	70	80	5.4	68	54	55	61		8.1	71	69	35
Wisconsin	2	85	85	1	88	89	80	81	1.3	75	63	65	67					
Minnesota				1	84	76	83	86	4	60	50	77	75					
Iowa	6	30	30	1.1	75	75	90	78	3.4	40	40	40	59		5	40	38	25
Missouri	3.1	28	29	1.9	65	68	55	73	9.9	33	30	10	44		4.6	44	42	10
North Dakota									1	50	50	70	75		70			
South Dakota																		
Nebraska	3	44	50	6	68	70	75	79	1.9	30	30	30	60		1.1	34	45	25
Kansas	1.9	51	55	3.2	76	74	42	70	5.9	53	54	2	48		5.1	67	63	3
Kentucky	1.8	46	46	8	79	76	72	82	4.3	42	39	28	51		2.9	58	55	22
Tennessee	1.5	55	55	4	80	74	48	74	3.8	59	60	20	51		2.8	63	55	15
Alabama	1.2	68	65	8	84	81	55	77	1.0	70	65	30	59		2.7	76	70	25
Mississippi	1.0	67	69	1	79	79	55	75	3	72	65	30	59		1.9	73	70	25
Louisiana	4	72	75		72	75	70	82	1	70	65	45	67		8	70	70	40
Texas	5.9	77	74	7	78	78	73	78	7	70	70	60	67		7.3	68	68	50
Oklahoma	1.1	63	60	2.0	75	69	65	77	1.4	55	53	75	71		5.9	67	63	70
Arkansas	1.1	60	58	6	73	70	75	79	3.7	40	41	70	62		4.1	70	69	68
Montana		80							3	90	83	85	85					
Wyoming																		
Colorado	1.0	60	38	2	60	62	55	77	1.0	65	37	15	70		3	25	25	10
New Mexico	2	65	60	3	85	83	45	73	2	50	70	25	69		1	70	56	12
Arizona	2	77	76	2	90	90	84	76				60	66		1	75	78	40
Utah	1.3	60	55	2	75	70	70	87	4	63	67	50	71		4	65	61	30
Nevada		41			25		70	75				50	73		20			
Idaho	7	75	71		89	92	90	80	5	90	80	78	78		1	76	78	45
Washington	1.8	87	85	1	89	89	93	90	1.4	90	83	84	80		2	83	82	65
Oregon	2.1	70	75	3	86	88	91	93	1.4	85	81	72	80		3	73	72	70
California	14.2	84	85	49.7	94	93	94	92	1.4	88	90	75	78		7.5	89	89	63
United States	100.0	69.7	70.6	100.0	87.9	87.1	84.5	85.6	100.0	57.6	52.2	39.4	55.9		100.0	69.7	67.1	33.3
Division:																		
North Atlantic	26.3	77	79	19.8	83	84	81	82	20.0	72	64	61	61		11.9	70	65	30
South Atlantic	10.8	67	70	3	86	86	72	82	12.4	68	66	32	53		19.6	77	75	23
N. C. E. Miss. R.	21.5	64	64	13.7	85	83	81	82	24.1	53	42	38	52		19.8	68	65	31
N. C. W. Miss. R.	5.9	36	38	6.9	72	72	56	73	21.6	40	39	16	50		11.3	53	52	9
South Central	14.0	67	65	5.4	78	74	65	78	15.3	51	50	42	57		28.4	68	65	46
Far Western	21.5	80	79	51.0	94	93	94	92	6.6	82	76	65	77		9.0	85	84	59

FRUIT GROWERS ASSOCIATIONS AND UNIONS

WE PUBLISH free in this column the name of any fruit growers' organization. Secretaries are requested to furnish particulars for publication.

Oregon

Lane County Fruit and Vegetable Growers' Association, Eugene; Medford Fruit Growers' Union, Medford; Ashland Fruit and Produce Association; Grants Pass Fruit Growers' Union, Grants Pass; Hood River Fruit Growers' Union, Hood River; Hood River Apple Growers' Union, Hood River; Grand Ronde Valley Fruit Growers' Union, La Grande; Milton Fruit Growers' Union, Milton; Douglas County Fruit Growers' Association, Roseburg; Willamette Valley Prune Association, Salem, Oregon; Willamette Valley Apple Growers' Association.

Idaho

Southern Idaho Fruit Shippers' Association, Boise; New Plymouth Fruit Growers' Association, New Plymouth; Payette Valley Apple Growers' Union, Payette; Payette Bench Melon Growers' Association, Limited, Payette.

Washington

Kennewick Fruit Growers' Association, Kennewick; Wenatchee Fruit Growers' Union, Wenatchee; Puyallup and Sumner Fruit Growers' Association, Puyallup; Vashon Island Fruit Growers' Association, Vashon; Mt. Vernon Fruit Growers' Association, Mt. Vernon; Spokane Fruit and Vegetable Growers' Association, Spokane; White Salmon Fruit Growers' Union, White Salmon; Thurston County Fruit Growers' Union, Tumwater; Bay Island Fruit Growers' Association, Tacoma; Whatcom County Fruit Growers' Association, Curtis; Yakima Valley Fruit and

Produce Growers' Association, Granger; Buckley Fruit Growers' Association, Buckley; Lewis River Fruit Growers' Union, Woodland; Yakima County Horticultural Union, North Yakima; Evergreen Fruit Growers' Association, R8, Spokane; Lake Chelan Fruit Growers' Association, Chelan; Tullah Fruit Growers' Association, Toppenish.

Colorado

San Juan Fruit and Produce Growers' Association, Durango; Fremont County Fruit Growers' Association, Canon City; Rocky Ford Melon Growers' Association, Rocky Ford; Plateau and Debeque Fruit, Honey and Produce Association, Debeque; Montrose Warehouse, Montrose; Surface Creek Fruit Growers' Association, Austin; Longmont Produce Exchange, Longmont; Manzanola Fruit Association, Manzanola; Delta County Fruit Growers' Association, Delta; Boulder County Fruit Growers' Association, Boulder; Fort Collins Beet Growers' Association, Fort Collins; La Junta Melon and Produce Company, La Junta; Rifle Fruit and Produce Association, Rifle; North Fork Fruit Growers' Association, Paonia; Fruita Fruit and Produce Association, Fruita; Grand Junction Fruit Growers' Association, Clifton, Palisade, Grand Junction; Palisade Fruit Growers' Association, Palisade; Peach Growers' Association, Palisade; Colorado Fruit and Commercial Company, Grand Junction; Montrose Fruit and Produce Association, Montrose.

Montana

Bitter Root Fruit Growers' Association, Hamilton.

Canada

Peachland Fruit Growers' Association, Limited, Peachland, British Columbia; British Columbia Fruit Growers' Association, Ladner, British Columbia.

Oregon; Southern Oregon Investment Company, Ashland, Oregon; Storch, Pratt & Forsyth, Okanogan, Washington; J. C. Hostetler, The Dalles, Oregon; C. R. Field, White Salmon, Washington; Grant, Burdick & Staples Realty Company, Ashland, Oregon; P. T. Packard, Underwood, Washington; Neely & Young, Spokane, Washington; Hanford & Co., The Dalles, Oregon.

Commercial Clubs

Klickitat Development League, Goldendale, Wash.; Hood River Commercial Club, Hood River, Oregon; Green River Commercial Club, Green River, Utah; Business Men's Association, The Dalles, Oregon; Dufur Commercial Club, Kennewick, Washington; North Yakima Commercial Club, North Yakima, Washington; Corvallis Commercial Club, Corvallis, Oregon; Yamhill Development League, McMinnville, Oregon.

Fruit Growers' Unions

Yakima County Horticultural Union, North Yakima, Washington; Rockford Fruit Growers' Association, Rockford, Washington; Douglas

A LIST OF THE ADVERTISERS IN BETTER FRUIT

ADVERTISERS IN "Better Fruit," when writing these firms please mention "Better Fruit."

Fruit Dealers

Buchanan & Behrens, Portland, Oregon; Levy & Spiegel, Portland, Oregon; W. B. Glafke & Co., Portland, Oregon; Davenport Brothers, Portland, Oregon; Pearson & Page, Portland, Oregon; McEwen & Koskey, Portland, Oregon; Page & Son, Portland, Oregon; Davenport & Thompson, Portland, Oregon; Mark Levy & Co., Portland, Oregon; Dryer, Bolland & Co., Portland, Oregon; Portland Brokerage Company, Portland, Oregon; Capitol Commission Company, Helena, Montana; Riehey & Gilbert, Toppenish, Washington; Ryan & Newton, Spokane, Washington; Lindsay & Co., Helena, Montana; Davidson Fruit Company, Hood River, Oregon; Lawrence-Hensley Company, Denver, Colorado; H. Wood & Co., Chicago, Illinois; Ryan & Newton, Butte, Montana; Newhall & Son, Chicago, Illinois; Gibson Fruit Company, Chicago, Illinois; Loomis & Co., New York, N. Y.; D. Crossley & Son (England), New York, N. Y.; Steinhardt & Kelly, New York, N. Y.; J. Grainger & Co., Lincoln, Nebraska; Appel & Uffly, New Orleans, Louisiana; A. Levy & J. Zentner, San Francisco, California; C. C. Clemons & Co., Kansas City, Missouri; Callender-Vanderhoof Company, Minneapolis, Minnesota; Wagner & Sons, Chicago.

Nurseries

Okanogan Nursery, Omak, Washington; Southern Oregon Nursery, Oakland, Oregon; H. S. Galligan, Hood River, Oregon; Vineland Nursery, Clarkston, Washington; The Sunnyside Nursery, Sunnyside, Washington; Albany Nursery, Albany, Oregon; Yakima Valley Nursery, North Yakima, Washington; F. W. Dixon, Holton, Kansas; Capital City Nursery, Salem, Oregon; The Ever-

best Nursery, Wenatchee, Washington; The Woodburn Nurseries, Woodburn, Oregon; The Dalles Nursery, The Dalles, Oregon; Chico Nursery Company, Chico, California; A. Holaday, Scappoose, Oregon; Ideal Nursery and Fruit Company, Hood River, Oregon; Hood River Nursery Company, Hood River, Oregon; Oregon Nursery Company, Salem, Oregon; C. F. Lansing, Salem, Oregon; C. B. Wood, Selah, Washington; Portland Wholesale Nursery Company, Portland, Oregon; J. A. Stewart, Christopher, Washington; H. A. Lewis, Montavilla, Oregon; A. C. E. Brown, Selah, Washington; Milton Nursery, Milton, Oregon; Tim Kelly's Nursery, North Yakima, Washington; R. Layritz, Victoria, British Columbia; Washington Nursery Company, Toppenish, Washington; O. F. Smith, Blackfoot, Washington; The Shenandoah Nurseries, Shenandoah, Iowa.

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White Salmon Land Company, White Salmon, Washington; J. W. Baker, Hood River, Oregon; Chapin & Herlow, Portland, Oregon; McRae & Angus, Portland, Oregon; J. H. Heilbronner & Co., Hood River, Oregon; George D. Culbertson & Co., Hood River, Oregon; F. W. Dehart, Underwood, Washington; Hanson & Rich, Kennewick, Washington; H. R. Albce, Hood River, Oregon; Stephens & Hause, Goldendale, Washington; Charles Meserve, Medford, Oregon; George A. Snider, Lyle, Washington; H. E. Waite, Mosier, Oregon; Burbank & Angus, Cashmere, Washington; The Hood River Land Emporium, Hood River, Oregon; Yakima Real Estate Company, North Yakima, Washington; George Chamberlain, Mosier, Oregon; Bitter Root Valley Irrigation Company, Hamilton, Montana; W. D. Moorehouse, Underwood, Washington; Estes Realty & Investment Company, White Salmon, Washington; Rogue River Land Company, Medford, Oregon; John H. Robinson, Grants Pass,

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Abstracts

Hood River Abstract Company, Hood River, Oregon.

Banks

First National Bank, Portland, Oregon; First National Bank, Hood River, Oregon; Butler Banking Company, Hood River, Oregon; Hood River Banking and Trust Company, Hood River, Oregon; Ladd & Tilton, Portland, Oregon.

Books and Periodicals

Slocum's Book Store, Hood River, Oregon; Oregon Chamber of Commerce Bulletin, Portland, Oregon; The Produce Reporter, Chicago, Illinois; The Post Office Mission, Portland, Oregon.

Cement Nails

J. C. Pearson, San Francisco, California.

Cider Presses

Hydraulic Press Company, Mt. Gilead, Ohio.

Cultivators

J. P. Kimball, Salem, Oregon.

Dry Goods

The Paris Fair, Hood River, Oregon.

Electrical Companies

Hood River Electric Light and Power Company, Hood River, Oregon; Hood River Electric Light and Wire Company, Hood River, Oregon.

Engraving

Hicks-Chatten, Portland, Oregon.

Fertilizers

German Kali Works, New York, N. Y.

Furniture

S. E. Bartmess, Hood River, Oregon.

Flour and Feed

Hood River Milling Company, Hood River, Oregon; Wasco Milling Company, The Dalles, Oregon; Transfer and Livery Company, Hood River, Oregon.

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Groceries

R. B. Bragg & Co., Hood River, Oregon.

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E. A. Franz, Hood River, Oregon.

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Mount Hood Hotel, Hood River, Oregon; Hotel Cornelius, Portland, Oregon.

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Plumbing

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Printing

F. W. Baltes & Company, Portland, Oregon.

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Mount Hood Railroad Company, Hood River, Oregon; Northern Pacific Railroad Company, St. Paul, Minnesota; Oregon Railroad and Navigation Company, Portland, Oregon.

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Columbia Steel Company, Portland, Oregon.

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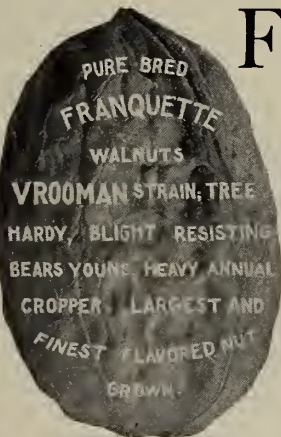
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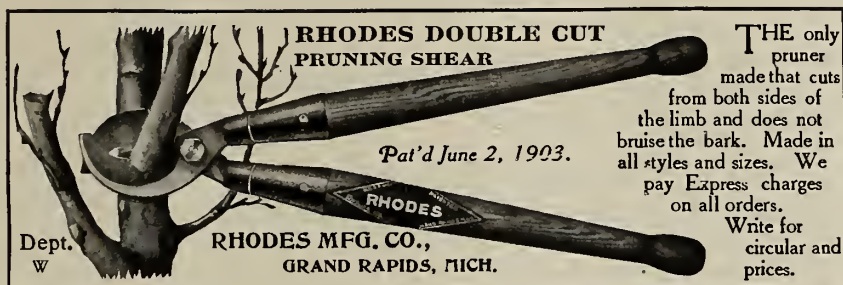
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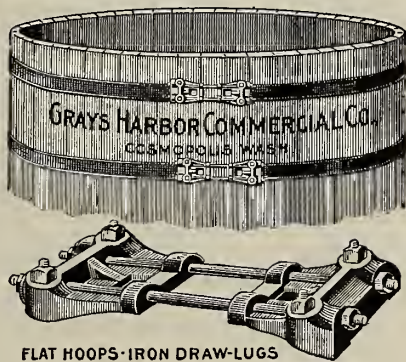
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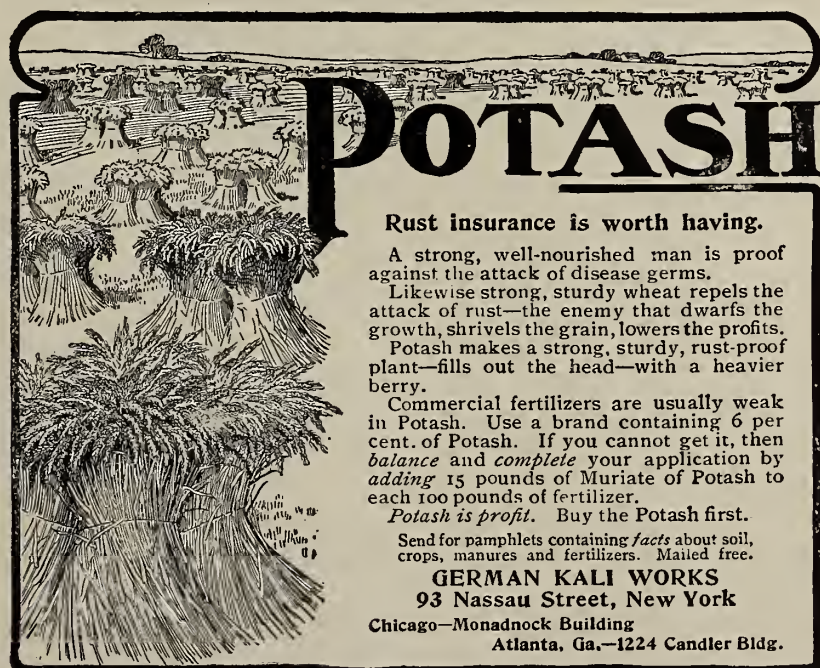
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Commercial fertilizers are usually weak in Potash. Use a brand containing 6 per cent. of Potash. If you cannot get it, then *balance and complete* your application by adding 15 pounds of Muriate of Potash to each 100 pounds of fertilizer.

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A BOARDING and Day School for Boys
Manual Training, Military Discipline, College
Preparation. Boys of any age admitted at any time.

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ILLUSTRATED
CATALOGUE

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PROPRIETOR AND PRINCIPAL
PORTLAND, OREGON

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*Good Quality
Prompt Shipments
Low Prices*

Send us your orders for apple, peach, pear, prune and orchard boxes. Grape crates, tin top baskets, etc.

**Multnomah
Lumber & Box Co.**

MANUFACTURERS

Foot Bancroft Avenue Portland, Oregon

Electric Wiring & Supply Company

Hood River, Oregon

Electrical Supplies and Fixtures, Scientific Wiring of Buildings a Specialty. Underwriters' Rules apply to all work in Hood River and surrounding districts.

BERRY BOXES CRATES, ETC.

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Mills Located at Gravel Pit on C. R. & N. Ry.

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Dealers in all kinds of

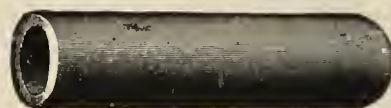
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Highest award on Tile at Lewis and Clark Fair

Tile From 3 to 12 Inch

Order carload lots or for further particulars write for booklet or call on or address

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Including Pear, Myrobolan Plum, Mazzard and Mahaleb Cherries, Quince, Manetti and Multiflora Rose Stocks.

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Apple and pear grafts, piece and whole root. Large general nursery stock. Prices promptly made.

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Established 1870—600 Acres

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*BRIGHT, LIGHT FRUIT BOXES FROM
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THE COUNTRY OF OPPORTUNITY

Where the color and keeping qualities of the fruits raised cannot be excelled anywhere in the world. **GOVERNMENT IRRIGATION** is the best irrigation system possible. We have a large list of excess lands, under the Government project, that must be sold, and the prices and terms are in reach of the man of moderate means. **OKANOGAN FRUITS** won a gold medal at the Lewis and Clark Exposition held at Portland, Oregon, in 1905. We also took nineteen prizes out of twenty-three varieties of fruit exhibited at Spokane Interstate Fair in 1907.

For particulars and free booklet address

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OKANOGAN, WASHINGTON

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WHITE RIVER FLOUR

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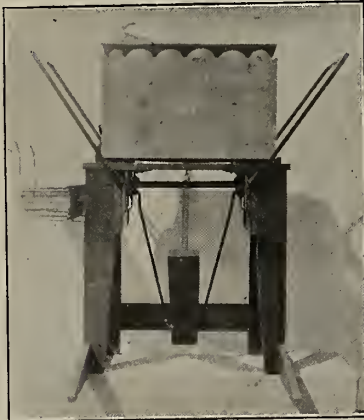
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**GOYETT
AUTOMATIC
APPLE BOX
PRESS**

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The fastest and only automatic apple box press made. Will pay for itself in one season.

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Retail price \$10, freight paid

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TWENTY-FOUR HOUR SERVICE

City Water Works System for Domestic and Municipal Use.

Are prepared to furnish 3000 Horse Power, either
Electric or Water, at Reasonable Rates

General Office, HOOD RIVER, OREGON

Niagara Lime and Sulphur Solution

For San Jose Scale and all pests for which Lime and Sulphur has been found a remedy. Niagara is the only spray made which is tested and has that test marked on every barrel. It is a perfectly made, clear, highly concentrated liquid, capable of being diluted with eleven times its quantity of water for San Jose Scale. The following are a few of the many who are using or handling Niagara because it is the best:

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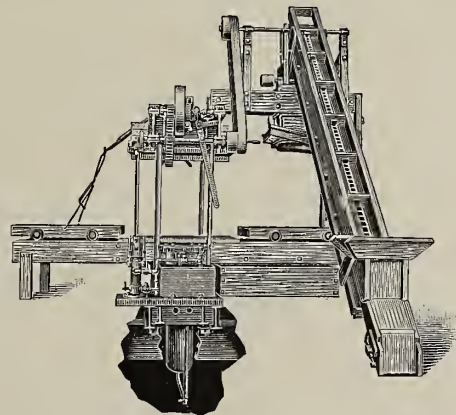
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HAND OR POWER. Made in Ten sizes

Produces more cider from less apples and is a bigger money maker than any other Press. *Fully Guaranteed.* Write for catalog or any information desired. We can show you how \$1500.00 clean profit can be made.

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We make a special feature of
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Southern Oregon Investment Co.

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Our Newtown Pippins are fine quality,
keep better, and bring the highest price.
Pear orchard net yield \$500 per acre.
Land finely located \$30 per acre and
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COME TO KENNEWICK VALLEY

Where early strawberries net the
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Where there is an abundance of
water from a gravity flow ditch.

Where land improved and raw can
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Where the shipping facilities are
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Where you can put your children
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ALWAYS READY FOR ANY
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THE "New-Way" POWER SPRAYER

IS EQUIPPED WITH THE FAMOUS

"NEW WAY" AIR COOLED ENGINE

GASOLINE
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Fruits of High
Quality Follow
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Carries high pressure without the usual vibration or strain, and is the most practical, durable and economical machine ever built for spraying. Use your own running gear if you prefer. Write us today for Spray Catalogue No. S-8



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**One Thousand
Miles Nearer
Eastern Markets
Than Pacific Coast Points**

No floods, no cyclones, no lightning

Climate unexcelled. Two hundred fifty thousand fruit trees planted this spring. Bearing trees loaded with beautiful fruit this frosty year. Peaches, pears, apples, cherries, apricots and other fruits grow in profusion. Unlimited water all year; low altitude; Eastern people; excellent transportation. Melons shipped in car lots that top the market. Opportunities galore. We invite comparison. All inquiries truthfully answered. Secretary Commercial Club, Green River, Utah

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*Are you doing what you
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Oregon needs people—settlers—honest farmers, mechanics, merchants, clerks, people with brains, strong hands and a willing heart—capital or no capital.

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are sending *tons* of Oregon literature to the east for distribution through every available agency. Will you not help the good work of building Oregon by sending us the names and addresses of your friends who are likely to be interested in this state? We will be glad to bear the expense of sending them complete information about Oregon and its resources.

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Will be on sale during

September and October
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The fare from a few principal cities is:

Denver . . . \$30.00	Louisville . . \$41.70
Omaha . . . 30.00	Cincinnati . . 42.20
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St. Louis . . 35.50	New York . . 55.00
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If you want to bring a friend or relative to Oregon, deposit the proper amount with any of our agents. The ticket will then be furnished by telegraph.

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General Passenger Agent

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Water will run up hill

WHEN A

Columbia Ram

Is placed at creek or spring. Most economical pumping device in existence. No cost of operation. No attendant required. Catalogs and estimates furnished free.

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COMPANY** PORTLAND
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MAKE A FORTUNE IN FRUIT

**\$2,000 to \$8,000 a Year Profit
from Only 10 Acres**



Home of Famous
"McINTOSH RED"
Apples.

You have heard of the wonders of irrigation. How would you like to own ten acres of irrigated fruit land in the famous Bitter Root Valley, where apples yield a clear profit of from \$2,000 to \$8,000 on ten acres every year? Where Grains and Vegetables also are produced in such abundance that the profits are almost beyond belief? Here's your chance, if you have a little ready money—say \$300 to \$500.

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The Bitter Root Valley Canal—81 miles long—built at a cost of over \$1,500,000—is practically completed. It creates an opportunity for you to make a fortune in fruit. We are now offering for sale a portion of our 40,000-acre irrigated tract, at a mere fraction of its value as measured by that of adjoining land. We are making such easy terms that even the man of small means can afford to invest.

A Few Hundred Dollars Hold 10 Acres of the Finest Fruit Land in this Wonderful Irrigated BITTER ROOT VALLEY of MONTANA

Land and water sold outright—no "homesteading." Present prices of only \$100 to \$150 per acre, on easy terms, afford those interested in fruit growing an unusual opportunity. This is the most attractive, prosperous and longest tried fruit valley in the Pacific Northwest. Nestled among the mountains, amid scenic beauties unsurpassed. Soil of exceeding depth and richness. The Land of Perfect Fruit! No insect fruit pests! 15,000 good neighbors! Rural Free Delivery—Farmers' Telephones—Fine Schools and Churches. Good roads everywhere. Steam and electric railroads bring world's best markets to your door. Delightful place to live. The buyer of each tract of land will become a proportionate owner in the Canal, and thus obtain perpetual water rights.

The Acreage is Limited—The Opportunity Boundless! Prompt Action is Imperative! Postal Brings Magnificent FREE Book!

The land is being sold off rapidly. Hundreds are making application. Investigate without delay. The Free Book and Map give information that may be worth many thousands of dollars to you. Contains page after page of evidence, from unquestioned authorities, proving that \$2,000 to \$8,000 clear profit annually is being made on ten-acre tracts of Bitter Root Valley irrigated fruit land. Fortune awaits the man who buys now. Write quickly for Free Book, Maps and full information. We want a few reliable agents. Address Dept. A.K.

BITTER ROOT VALLEY IRRIGATION CO., 100 Washington Street, CHICAGO

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DON'T MAKE THE MISTAKE OTHERS HAVE MADE

And purchase fruit lands before you look up the opportunities offered at Dufur where farms are being cut up into ten and twenty acre tracts for fruit raising. Dufur is only fifteen miles south of The Dalles and twenty miles southwest of Hood River Valley

Hundreds of trees are being set out every year; don't miss the opportunity of getting in on the ground floor where we have the best lands for the least money



No other country attempts to offer as good fruit lands, all cleared and ready to set out to trees, as is offered in Dufur

For further information write

THE DUFUR COMMERCIAL CLUB

FRUIT LANDS

We have for sale some very fine tracts of improved and unimproved fruit lands in Wasco County, Oregon, the center of the most famous apple, cherry and peach belt of the world. ¶ Our apples bring the highest prices of any on the market. Our cherries, apricots and peaches beat the world. ¶ We have just the place that will suit you, regardless of what your wants may be. We offer the best bargains, the best lands and the best terms. ¶ Write us what you want and we will quote you prices and terms. We have it.

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THE DALLES, OREGON

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OUR "CREDIT BOOK" contains the names and shows the specialties of thousands of fruit and produce growers located in all parts of the United States. Many of these are looking for new locations and are peculiarly valuable "prospects" for you. You can circularize these parties *at the minimum postage waste.*

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Exclusive Dealers in

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ORCHARDS
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TRACTS OF EVERY SIZE FROM 10 TO 1000 ACRES

Prices Right, Production Unequaled

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COME TO HOOD RIVER NOW

"While the Apples are on the Trees"